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(54) Title: **TISSUE SPECIFIC GENES OF DIAGNOSTIC IMPORT**

(57) Abstract: The present invention relates to a composition comprising a plurality of polynucleotides which are cell and/or tissue specific and which may be used in their entirety or in part as references in producing an expression profile that defines a metabolic or developmental process, treatment, condition, disease, or disorder.

TISSUE SPECIFIC GENES OF DIAGNOSTIC IMPORT

TECHNICAL FIELD

The present invention relates to a composition comprising a plurality of polynucleotides which
5 are cell and/or tissue specific. These polynucleotides may be used to define and direct a metabolic or developmental process, to identify or to monitor the progression of a condition, disease, or disorder, or to evaluate and monitor the efficacy of a treatment protocol.

BACKGROUND ART

Array technology can provide a simple way to explore the expression of a single polymorphic
10 gene or the expression profile of a large number of related or unrelated genes. When the expression of a single gene is examined, arrays are employed to detect the expression of a specific gene or its variants. When an expression profile is examined, arrays provide a platform for examining which genes are tissue specific, direct the differentiation of a cell type or tissue, carry out housekeeping functions, function as parts of a signaling cascade, or characterize a particular genetic predisposition,
15 condition, disease, or disorder.

The application of gene expression profiling is particularly relevant to improving diagnosis and prognosis of disease. However, in order to determine whether expression of a particular gene in a particular disease is significant, it is useful to provide a reference set of tissue and cell specific genes against which genes expressed during the disease process may be compared. For example, both the
20 levels and sequences expressed in brain tumors may be compared with the levels and sequences expressed in normal brain tissue. These comparisons may be made on a single array by incorporating a particular tissue or cell specific reference set alongside novel sequences or on multiple arrays, each of which contains at least some subset of the known reference set.

The present invention satisfies a need in the art in that it provides such a reference set. The
25 reference set may be used in its entirety or in part to produce an expression profile that may be used to define and direct a metabolic or developmental process, to identify or to monitor the progression of a condition, disease, or disorder, or to evaluate and monitor the efficacy of a treatment protocol.

SUMMARY

The present invention provides a plurality of tissue or cell specific polynucleotides which may
30 be used on an array to produce an expression profile. This profile may define expression of the polynucleotides in normal tissue, during a particular metabolic or developmental process or during the onset, progression, or treatment of a human condition, disease, or disorder. In one embodiment, these polynucleotides are selected from SEQ ID NOs:1-416.

The invention also provides a plurality of polynucleotides which display tissue or cell specific

expression and are selected from: a) SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof; b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and fragments thereof; c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof; d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of
 5 ovary and fragments thereof; e) SEQ ID NOs:257-263 and 49-55, cell specific polynucleotides of stomach and fragments thereof; f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof; g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments thereof; h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof; i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney
 10 and fragments thereof; j) SEQ ID NOs:357-374 and 149-166, cell specific polynucleotides of pancreas and fragments thereof; and k) SEQ ID NOs:375-416 and 167-208, cell specific polynucleotides of brain and fragments thereof. In one aspect, the plurality of polynucleotides are immobilized on a substrate.

In another embodiment, the expression of a plurality of polynucleotides is used to detect
 15 expression in a tissue. In one aspect, the tissue is embryonic stem cells which are differentiating into brain, heart, kidney, liver, lung, muscle or pancreatic tissues. In a second aspect, the tissue is a biopsy from diseased brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues which is being diagnosed for a cancer or immune or inflammatory disease or subjected to forensic analysis. In a third aspect, the point of origin of a metastatic cancer is determined.

20 In another embodiment, the polynucleotides are used in high throughput methods of screening molecules or compounds to identify a ligand, the method comprising combining a polynucleotide with molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds to the polynucleotide. The molecules or compounds to be screened are selected from DNA molecules, RNA molecules, PNAs, mimetics,
 25 peptides, and proteins.

In another embodiment, the invention provides a substantially purified polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204. In one aspect, the polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287,
 30 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204 is used in an expression vector transformed into a host cell to produce a protein or a portion thereof by culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

In a third embodiment, the invention provides a protein or a portion thereof. In one aspect, the
 35 protein is used in a high throughput method to screen large numbers of molecules or compounds to

identify at least one ligand which specifically binds the protein, the method comprising combining the protein with the molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds the protein. In a second aspect, the protein is used to purify a ligand, the method comprising combining the protein with a sample under
 5 conditions to allow specific binding, recovering the bound protein, and separating the protein from the ligand, thereby obtaining purified ligand. The molecules or compounds screened or purified may be selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents. Any of these molecules or compounds may have diagnostic or therapeutic
 10 applications.

DESCRIPTION OF THE SEQUENCE LISTING AND TABLES

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The Sequence Listing is a compilation of polynucleotides obtained by sequencing and extension of clone inserts of different cDNAs. Each sequence is identified by a sequence identification number (SEQ ID NO or SEQ ID) and by the clone number (Incyte ID) from which it was obtained.

Table 1 lists the fragments and extended polynucleotides by their SEQ ID NO and cDNA
 20 respectively, tissue, and by the description associated with at least a fragment of a homologous polynucleotide in GenBank. The descriptions were obtained using the sequences of the Sequence Listing and BLAST analysis.

Table 2 lists the source of the RNAs used to produce target polynucleotides for hybridization to the UNIGEM V microarray (Incyte Genomics, Palo Alto CA). The columns present the Source No,
 25 Tissue, Age, Ethnicity/Sex, Cause of Death, and Conditions or Diseases, as known for each donor.

Table 3 shows the data for each of the clones across each of the tissues used in the experiments. The columns present Clone ID and the tissues (with source number)--heart, skeletal muscle, uterus, stomach, small intestine, lung, liver, kidney, pancreas, spleen and brain. This data was produced using GEMTOOLS software (Incyte Genomics).

30 Table 4 presents the analysis of variance (ANOVA) for the data. The columns present Clone ID, Var. Betw (variance between), Var. Within (variance within), F (value), and Probability. These values were produced using batch ANOVA (Sokal and Rohlf (1969) Biometry; the Principles and Practice of Statistics in Biological Research, WH Freeman, San Francisco CA) and EXCEL98 software (Microsoft, Seattle WA).

35 Table 5 shows the cell and tissue specificity of the polynucleotides across tissues (heart,

skeletal muscle, uterus, stomach, small intestine, lung, liver, kidney, pancreas, spleen and brain). The cell and tissue specific groupings were produced using mean values [mean (tissue)- mean (entire set)] and grouped using EXCEL98 software (Microsoft).

DESCRIPTION OF THE INVENTION

5 Definitions

The term "array" refers to an ordered arrangement of hybridizable polynucleotides. These are arranged so that there are a "plurality" of polynucleotides, preferably at least one polynucleotide, preferably at least 100 polynucleotides, and more preferably at least 1,000 polynucleotides, and even more preferably at least 10,000 polynucleotides on a 1 cm² substrate. The maximum number of
10 polynucleotides is unlimited, but is at least 100,000. Furthermore, the signal from each of the hybridized polynucleotides is individually distinguishable.

A "polynucleotide" refers to a chain of nucleotides. Preferably, the chain has from about 15 to 10,000 nucleotides and more preferably from about 400 to 6,000 nucleotides. The term "probe" refers to a probe polynucleotide capable of hybridizing with a target polynucleotide to form a hybridization
15 complex. In most instances, the sequences of the probe and target polynucleotides will be complementary (no mismatches) when aligned. In some instances, there may be up to a 10% mismatch.

"Fragment" refers to any part of an Incyte clone or polynucleotide which retains a useful characteristic. Useful fragments may be used in hybridization technologies, to identify or purify ligands, or as a therapeutic to regulate replication, transcription or translation.

20 "Ligand" refers to any agent, molecule, or compound which will bind specifically to a complementary site on a polynucleotide or protein. Such ligands stabilize or modulate the activity of polynucleotides or proteins and may be composed of at least one of the following: inorganic and organic substances including nucleic acids, proteins, carbohydrates, fats, and lipids.

"Purified" refers to any molecule or compound that is removed, isolated, or separated from its
25 natural environment and is at least about 60% free, and more preferably about 90% free, from other components with which it is naturally associated.

"Specific binding" refers to a special and precise interaction between two molecules which is dependent upon a particular structure such as molecular side groups. For example, the hydrogen bonding between two single stranded nucleic acids or the binding between an epitope or a protein and
30 an agonist, antagonist, or antibody.

"Sample" is used in its broadest sense. A sample containing polynucleotides may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane isolated from a cell; genomic DNA, RNA, or cDNA in solution or bound to a substrate; a cell; a tissue; a tissue print; a finger print, a hair, and the like.

35 "Portion" refers to any part of a protein used for any purpose, but especially for the screening

of molecules or compounds to identify those which specifically bind to that portion and for producing antibodies.

The phrase "polynucleotide encoding a protein" refers to nucleic acid sequence that closely aligns with a sequence which encodes a conserved protein motif or domain that were identified by
 5 employing analyses well known in the art. These analyses include Hidden Markov Models (HMMs) such as PFAM (Krogh (1994) J Mol Biol 235:1501-1531; Sonnhamer et al. (1988) Nucl Acids Res 26:320-322), BLAST (Basic Local Alignment Search Tool; Altschul (1993) J Mol Evol 36: 290-300; and Altschul et al. (1990) J Mol Biol 215:403-410), or other analytical tools such as BLIMPS (Henikoff et al. (1998) Nucl Acids Res 26:309-12). Additionally, "polynucleotide encoding a protein"
 10 may refer to a polynucleotide that is expressed in or associated with specific human metabolic processes, conditions, disorders, or diseases.

"Cell specific", as defined herein, refers to those polynucleotides which occur at a statistically significant level in more than one tissue. The commonality between the tissues may be ascribed to the types of cells that are an integral part of or would be expected to be found in a particular tissue, e.g.,
 15 blood cells, nerve cells, endothelial cells, and the like.

The Invention

The present invention provides a plurality of tissue or cell specific polynucleotides which may be used on an array to produce an expression profile. This profile may define expression of these polynucleotides in normal tissue, during a particular metabolic or developmental process or during the
 20 onset, progression, or treatment of a human condition, disease, or disorder. These polynucleotides represent known and novel genes normally expressed in the cells or tissues of the brain, heart, intestine, kidney, liver, lung, smooth muscle, ovary, pancreas, spleen, stomach, or uterus. The expression of these polynucleotides may be compared to the expression of other known or novel genes found on an array. The plurality of polynucleotides, the entire reference set, comprises SEQ ID NOs:1-416. Tissue
 25 or cell-specific reference sets may be selected from SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof; b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and fragments thereof; c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof; d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of ovary and fragments thereof; e) SEQ ID NOs:257-263 and 49-55, cell
 30 specific polynucleotides of stomach and fragments thereof; f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof; g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments thereof; h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof; i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney and fragments thereof; j) SEQ ID NOs:357-374 and 149-166, cell
 35 specific polynucleotides of pancreas and fragments thereof; and k) SEQ ID NOs:375-416 and 167-208,

cell specific polynucleotides of brain and fragments thereof. The plurality of polynucleotides is arrayed on a substrate, preferably a microarray or used as probes.

The invention also provides a substantially purified polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204. These polynucleotides may be used in an expression vector transformed into a host cell to produce a protein or a portion thereof by culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

The microarray can be used for large scale genetic or gene expression analysis of a large number of novel target polynucleotides. These targets are prepared by methods well known in the art and are from mammalian cells or tissues which are in a certain stage of development or differentiation; have been treated with a known molecule or compound, such as a cytokine, growth factor, a drug, and the like; or have been extracted or biopsied from a mammal with a known or unknown condition, disorder, or disease before or after treatment. Specifically, the plurality of polynucleotides are useful to determine the differentiation of embryonic stem cells toward brain, heart, kidney, liver, lung, muscle or pancreatic tissues or to determine whether a cancer is metastatic or its source by analyzing biopsied tissue from diseased brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues. The plurality of polynucleotides may be used during the diagnosis of a cancer, an immunopathology, a neuropathology, and the like.

The target polynucleotides are hybridized to the probe polynucleotides for the purpose of defining a novel gene profile associated with that developmental stage, treatment, condition, disorder or disease. Subsequently, the gene profile can be used for diagnosis, prognosis, or monitoring of treatments where altered expression of known and novel genes is associated with a cancer, an immunopathology, a neuropathology, and the like. In some cases, a gene profile can be used to investigate an individual's predisposition to a condition, disorder or disease such as a cancer, an immunopathology, a neuropathology, and the like.

When the polynucleotides of the invention are employed as hybridizable polynucleotides on a microarray, the polynucleotides are organized in an ordered fashion so that each polynucleotide is present at a specified location on the substrate. Because the probe polynucleotides are at specified locations on the substrate, their hybridization patterns and intensities can be compared with the hybridization patterns and intensities of other known and novel polynucleotides to create an expression profile. Such a profile, interpreted in terms of expression levels of the cell and tissue specific, known, and novel genes can be correlated with a particular metabolic process, developmental stage, treatment, condition, disorder, disease, or stage of disease.

The plurality of polynucleotides can also be used to identify or purify a molecule or compound

which specifically binds to at least one of the polynucleotides. These molecules may be identified from a sample or in high throughput mode from a large number of molecules and compounds including mRNAs, cDNAs, genomic fragments, and the like. Typically, the molecules or compounds will be of particular diagnostic or therapeutic interest.

5 If nucleic acid molecules in a sample enhance the hybridization background, it may be advantageous to remove the offending molecules. One method for removing such molecules is by hybridizing the sample with immobilized probe polynucleotides and washing away those molecules that do not form hybridization complexes. At a later point, hybridization complexes can be dissociated, thereby releasing those molecules which specifically bind the probe polynucleotides.

10 Method for Selecting Polynucleotide Probes

There are numerous different ways to select polynucleotides. Some of the more common ones include selecting probes from genes which are well known in the literature to have an association with a particular condition, disorder, or disease, which have a common functional characteristic such as the presence of a particular motif or domain or a signal peptide, which are
15 expressed in a particular cell type or tissue such as blood or bone marrow, and the like.

Preferably, the probes are non-redundant; therefore, no more than one probe represents a particular gene. Control sequences, however, may be selected specifically for their redundancy.

Polynucleotides of the composition may be manipulated to optimize their performance in hybridization technologies. Polynucleotide selection may be optimized by examining the sequences
20 using a computer algorithm to identify fragments lacking potential secondary structure. Computer algorithms such as those employed in Vector NTI software (Informax, N. Bethesda MD) or LASERGENE software (DNASTAR, Madison WI) are well known in the art. These programs search nucleic acid sequences to identify stem loop structures and tandem repeats and to analyze G+C content of the sequence. In mammalian arrays, those sequences with a G+C content greater than 60% may be
25 excluded. Alternatively, polynucleotides can be optimized under experimental conditions to determine whether polynucleotide probes and their complementary targets hybridize optimally.

Where the greatest numbers of non redundant polynucleotides are desired, the polynucleotides may be compared with clustered or assembled sequences to assure that each polynucleotide is derived from a different gene. To obtain a longer or different probe for a particular gene, the polynucleotide
30 may be physically extended utilizing the partial nucleotide sequences derived from the Incyte clone and employing the XL-PCR kit (Applied Biosystems, Foster City CA) or other means known in the art.

Polynucleotide Probes

Polynucleotide probes can be genomic DNA or cDNA or mRNA, or any RNA-like or DNA-like material, such as peptide nucleic acids, branched DNAs and the like. They may be the sense
35 or antisense strand. Where targets are double stranded, probes may be either sense or antisense

strands. Where targets are single stranded, probes are complementary single strands.

In one embodiment, polynucleotide probes are cDNAs. The size of the cDNAs may vary and is preferably from 15 to 10,000 nucleotides, more preferably from 60 to 4000 nucleotides, and most preferably from 200-600 nucleotides.

5 In another embodiment, probes are plasmids. In this case, the cDNA sequence of interest is the insert sequence. Excluding the vector DNA and regulatory sequences, cDNA size may vary preferably from 15 to 10,000 nucleotides, more preferably from 60 to 4000 nucleotides, and most preferably from 200-600 nucleotides.

Polynucleotide probes can be prepared by a variety of synthetic or enzymatic methods well known in the art. Probes can be synthesized, in whole or in part, using chemical methods well known in the art (Caruthers et al. (1980) Nucleic Acids Symp Ser (7):215-233). Alternatively, probes can be produced enzymatically or recombinantly, by in vitro or in vivo transcription.

Nucleotide analogues can be incorporated into the probes by methods well known in the art. The only requirement is that the incorporated nucleotide analogues of the probe must base pair with target nucleotides. For example, certain guanine nucleotides can be substituted with hypoxanthine which base pairs with cytosine residues. However, these base pairs are less stable than those between guanine and cytosine. Alternatively, adenine nucleotides can be substituted with 2,6-diaminopurine which can form stronger base pairs than those between adenine and thymidine.

Additionally, probes can include nucleotides that have been derivatized chemically or enzymatically. Typical chemical modifications include derivatization with acyl, alkyl, aryl or amino groups.

Probes can be synthesized on a substrate. Synthesis on the surface of a substrate may be accomplished using a chemical coupling procedure and a piezoelectric printing apparatus as described by Baldeschweiler et al. (PCT/WO95/251116). Alternatively, the probe can be synthesized on a substrate surface using a self-addressable electronic device that controls when reagents are added as described by Heller et al. (USPN 5,605,662).

Complementary DNA (cDNA) can be arranged and then immobilized on a substrate. Probes can be immobilized by covalent means such as by chemical bonding procedures or UV. In one such method, a cDNA is bound to a glass surface which has been modified to contain epoxide or aldehyde groups. In another case, a cDNA probe is placed on a polylysine coated surface and then UV cross-linked as described by Shalon et al. (PCT/WO95/35505; incorporated herein by reference). In yet another method, a DNA is actively transported from a solution to a given position on a substrate by electrical means (Heller et al. supra). Alternatively, probes, clones, plasmids or cells can be arranged on a filter. In the latter case, cells are lysed, proteins and cellular components degraded, and the DNA is coupled to the filter by UV cross-linking.

Furthermore, probes do not have to be directly bound to the substrate, but rather can be bound to the substrate through a linker group. The linker groups are typically about 6 to 50 atoms long to provide exposure of the attached probe. Preferred linker groups include ethylene glycol oligomers, diamines, diacids and the like. Reactive groups on the substrate surface react with a terminal group of the linker to bind the linker to the substrate. The other terminus of the linker is then bound to the probe.

Probes can be attached to a substrate by sequentially dispensing reagents for probe synthesis on the substrate surface or by dispensing preformed DNA fragments to the substrate surface. Typical dispensers include a micropipette delivering solution to the substrate with a robotic system to control the position of the micropipette with respect to the substrate. There can be a multiplicity of dispensers so that reagents can be delivered to the reaction regions efficiently.

Sample Preparation

In order to conduct sample analysis, a sample containing targets is provided. The samples can be any sample containing targets and obtained from any bodily fluid (blood, urine, saliva, phlegm, gastric juices, etc.), cultured cells, biopsies, or other tissue or forensic preparations.

DNA or RNA can be isolated from a sample according to any of a number of methods well known to those of skill in the art. For example, methods of purification of nucleic acids are described in Tijssen (1993) Laboratory Techniques in Biochemistry and Molecular Biology: Hybridization With Nucleic Acid Probes, Part I. Theory and Nucleic Acid Preparation, Elsevier Science, New York NY). In one case, total RNA is isolated using TRIZOL reagent (Life Technologies, Gaithersburg MD), and mRNA is isolated using oligo d(T) column chromatography or glass beads. In one alternative, when targets are derived from an mRNA, targets can be a DNA reverse transcribed from an mRNA, an RNA transcribed from that DNA, a DNA amplified from that DNA, an RNA transcribed from the amplified DNA, and the like. When target is derived from DNA, target can be DNA amplified from DNA, or RNA reverse transcribed from DNA. In yet another alternative, targets are prepared by more than one method.

When targets are amplified it is desirable to amplify the nucleic acids in the sample and to maintain their relative abundances, including low abundance transcripts. Total mRNA can be amplified by reverse transcription using a reverse transcriptase and a primer consisting of oligo d(T) and a sequence encoding the phage T7 promoter to provide a single stranded DNA template. The second DNA strand is polymerized using a DNA polymerase and an RNase which assists in breaking up the DNA/RNA hybrid. After synthesis of the double stranded DNA, T7 RNA polymerase can be added, and RNA transcribed from the second DNA strand template as described by Van Gelder et al. (USPN 5,545,522). RNA can be amplified in vitro, in situ or in vivo (Eberwine, USPN 5,514,545).

It is also advantageous to include quantitation controls to assure that amplification and labeling

procedures do not change the true abundance of transcripts in a sample. For this purpose, a sample is spiked with a known amount of control nucleic acid, and the probes include control probes which specifically hybridize with the control nucleic acid. After hybridization and processing, the hybridization signals should reflect accurately the amounts of control nucleic acid added to the sample.

5 Prior to hybridization, it may be desirable to fragment the nucleic acids of the sample. Fragmentation improves hybridization by minimizing secondary structure and cross-hybridization among the nucleic acids in the sample or with noncomplementary probes. Fragmentation can be performed by mechanical or chemical means.

The nucleic acids may be labeled with one or more labeling moieties to allow for detection and
10 quantitation of hybridization complexes. The labeling moieties can include compositions that can be detected by spectroscopic, photochemical, biochemical, bioelectronic, immunochemical, electrical, optical or chemical means. The labeling moieties include radioisotopes, such as ^{32}P , ^{33}P or ^{35}S ; chemiluminescent compounds, labeled binding proteins, heavy metal atoms, spectroscopic markers such as fluorescent markers and dyes; magnetic labels, linked enzymes, mass spectrometry tags, spin labels,
15 electron transfer donors and acceptors, and the like.

Exemplary dyes include quinoline dyes, triarylmethane dyes, phthaleins, azo dyes, cyanine dyes, and the like. Preferably, fluorescent markers absorb light above about 300 nm, more preferably above 400 nm, and usually emit light at wavelengths at least greater than 10 nm above the wavelength of the light absorbed. Preferred fluorescent markers include fluorescein, phycoerythrin, rhodamine,
20 lissamine, and Cy3 and Cy5.

Labeling can be carried out during an amplification reaction, such as polymerase chain and in vitro transcription reactions; by nick translation, or by 5' or 3'-end-labeling reactions. In one case, labeled nucleotides are used in an in vitro transcription reaction. When the label is incorporated after or without an amplification step, the label is incorporated either by using a terminal transferase or a
25 kinase on the 5' end of the target polynucleotide and then incubating overnight with a labeled oligonucleotide in the presence of T4 RNA ligase.

Alternatively, the labeling moiety can be incorporated after hybridization once a probe/target complex has formed. In one case, biotin is first incorporated during an amplification step as described above. After the hybridization reaction, unbound nucleic acids are rinsed away so that the only biotin
30 remaining bound to the substrate is that attached to targets that are hybridized to probes. Then, an avidin-conjugated fluorophore, such as avidin-phycoerythrin, that binds with high affinity to biotin is added. In another case, the labeling moiety is incorporated by intercalation into preformed target/probe complexes. In this case, an intercalating dye such as a psoralen-linked dye can be employed.

Screening Assays

35 Probes or polynucleotides may be used to screen a library of molecules or compounds for

specific binding affinity. The libraries may be DNA molecules, RNA molecules, PNAs, peptides, proteins such as transcription factors, enhancers, repressors, and other organic or inorganic ligands which regulate activities such as replication, transcription, or translation of polynucleotides in the biological system. The assay involves combining the probe with the library of molecules or compounds
5 under conditions that allow specific binding, and detecting specific binding to a ligand which specifically binds the probe.

Similarly, a protein or a portion thereof transcribed and translated from a probe may be used to screen libraries of molecules or compounds in any of a variety of screening assays. The protein or portion thereof may be free in solution, affixed to an abiotic or biotic substrate, borne on a cell surface,
10 or located intracellularly. Specific binding between the protein and a ligand may be measured. Depending on the kind of library being screened, the assay may be used to identify DNA, RNA, or PNAs, agonists, antagonists, antibodies, immunoglobulins, inhibitors, mimetics, peptides, proteins, drugs, or any other ligand, that specifically binds the protein.

Purification of Ligand

15 Probes may be used to purify a ligand from a sample. A method for using a probe to purify a ligand would involve combining the probe with a sample under conditions to allow specific binding, detecting specific binding, recovering the bound protein, and using an appropriate agent to separate the polynucleotide from the purified ligand.

Similarly, the encoded protein or a portion thereof may be used to purify a ligand from a
20 sample. A method for using a protein or a portion thereof to purify a ligand would involve combining the protein or a portion thereof with a sample under conditions to allow specific binding, detecting specific binding between the protein and ligand, recovering the bound protein, and using an appropriate agent to separate the protein from the purified ligand.

Hybridization and Detection

25 Hybridization causes a denatured polynucleotide probe and a denatured complementary target to form a stable duplex through base pairing. Hybridization methods are well known to those skilled in the art. (See Ausubel, supra, units 2.8-2.11, 3.18-3.19 and 4.6-4.9.) Conditions can be selected for hybridization where completely complementary probe and target can hybridize, i.e., each base pair must interact with its complementary base pair. Alternatively, conditions can be selected where probe
30 and target have mismatches of up to about 10% but are still able to hybridize. Suitable conditions can be selected by varying the concentrations of salt in the prehybridization, hybridization, and wash solutions or by varying the hybridization and wash temperatures. With some substrates, temperature can be decreased by adding formamide to the prehybridization and hybridization solutions.

Hybridization can be performed at low stringency with buffers, such as 5xSSC with 1%
35 sodium dodecyl sulfate (SDS) at 60°C, which permits hybridization between probe and target

sequences that contain some mismatches to form probe/target complexes. Subsequent washes are performed at higher stringency with buffers such as 0.2xSSC with 0.1% SDS at either 45°C (medium stringency) or 68°C (high stringency), to maintain hybridization of only those probe/target complexes that contain completely complementary sequences. Background signals can be reduced by the use of
5 detergents such as SDS, Sarcosyl, or TRITON X-100 (Sigma-Aldrich, St. Louis MO) or a blocking agent, such as salmon sperm DNA.

Hybridization specificity can be evaluated by comparing the hybridization of control probe to target sequences that are added to a sample in a known amount. The control probe may have one or more sequence mismatches compared with the corresponding target. In this manner, it is possible to
10 evaluate whether only complementary probes are hybridizing to the targets or whether mismatched hybrid duplexes are forming.

Hybridization reactions can be performed in absolute or differential hybridization formats. In the absolute hybridization format, probes from one sample are hybridized to microarray probes, and signals detected after hybridization complexes form. Signal strength correlates with probe levels in a
15 sample. In the differential hybridization format, differential expression of a set of genes in two biological samples is analyzed. Probes from the two samples are prepared and labeled with different labeling moieties. A mixture of the two labeled targets is hybridized to the microarray probes, and signals are examined under conditions in which the emissions from the two different labels are individually detectable. Targets in the microarray that are hybridized to substantially equal numbers of
20 probes derived from both biological samples give a distinct combined fluorescence (Shalon, PCT/WO95/35505). In a preferred embodiment, the labels are fluorescent labels with distinguishable emission spectra, such as a lissamine conjugated nucleotide analog and a fluorescein conjugated nucleotide analog. In another embodiment Cy3 and Cy5 fluorophores (Amersham Pharmacia Biotech, Piscataway NJ) are employed.

25 After hybridization, the microarray is washed to remove nonhybridized polynucleotides, and complex formation between the hybridizable array probes and the targets is examined. Methods for detecting complex formation are well known to those skilled in the art. In a preferred embodiment, the probes are labeled with a fluorescent label, and measurement of levels and patterns of fluorescence indicative of complex formation is accomplished by fluorescence microscopy, preferably confocal
30 fluorescence microscopy. An argon ion laser excites the fluorescent label, emissions are directed to a photomultiplier, and the amount of emitted light is detected and quantitated. The detected signal should be proportional to the amount of probe/target complexes at each position of the microarray. The fluorescence microscope can be associated with a computer-driven scanner device to generate a quantitative two-dimensional image of hybridization intensity. The scanned image is examined to
35 determine the abundance/expression level of hybridized probe.

Typically, microarray fluorescence intensities can be normalized to take into account variations in hybridization intensities when more than one microarray is used under similar test conditions. In a preferred embodiment, individual polynucleotide probe/target complex hybridization intensities are normalized using the intensities derived from internal normalization controls contained on each
5 microarray.

Expression Profiles

This section describes an expression profile using the polynucleotides of this invention. The reference set can be used as part of a expression profile which detects changes in the expression of novel genes whose transcripts are modulated in a particular metabolic response, treatment, condition,
10 disorder, or disease. These genes will include genes whose altered expression is correlated with a cancer, an immunopathology, a neuropathology, and the like.

The expression profile comprises a plurality of detectable hybridization complexes. Each complex is formed by hybridization of one or more probes to one or more complementary targets. At least one of the probes, preferably a plurality of probes, is hybridized to a complementary target
15 forming, at least one and preferably, a plurality of complexes. A complex is detected by incorporating at least one labeling moiety. The expression profiles provide "snapshots" that can show unique expression patterns that are characteristic of a metabolic process, treatment, condition, disorder or disease.

After performing hybridization experiments and detecting signals from a microarray, particular
20 probes can be identified and selected based on their expression patterns. Such probes can be used to clone a full length sequence for the gene, to screen a library for a closely related homolog, to screen for or purify ligands, or to produce a protein.

Utility of the Invention

The plurality of polynucleotides can be used as hybridizable elements in a microarray. Such a
25 microarray can be employed in several applications including diagnostics, prognostics and treatment regimens, and drug discovery and development for conditions, disorders, and diseases such as cancer, an immunopathology, a neuropathology and the like.

Expression Profiles

In one situation, the microarray is used to monitor the progression of disease. The differences
30 in gene expression between healthy and diseased tissues or cells can be assessed and cataloged. By analyzing changes in patterns of gene expression, disease can be diagnosed at earlier stages before the patient is symptomatic. The invention can be used to formulate a prognosis and to design a treatment regimen. The invention can also be used to monitor the efficacy of treatment. For treatments with known side effects, the microarray is employed to "fine tune" the treatment regimen. A dosage is
35 established that causes a change in genetic expression patterns indicative of successful treatment.

Expression patterns associated with the onset of undesirable side effects are avoided. This approach may be more sensitive and rapid than waiting for the patient to show inadequate improvement, or to manifest side effects, before altering the course of treatment.

Alternatively, animal models which mimic a human disease can be used to characterize
5 expression profiles associated with a particular condition, disorder or disease or the treatment of the condition, disorder or disease. Experimental treatment regimens may be tested in these animal models using microarrays to establish and then follow expression profiles over time. In addition, microarrays may be used with cell cultures or tissues removed from animal models to rapidly screen large numbers of candidate drug molecules, looking for ones that produce an expression profile similar to those of
10 known therapeutic drugs, with the expectation that molecules with the same expression profile will likely have similar therapeutic effects. Thus, the invention provides the means to rapidly determine the molecular mode of action of a drug.

Embryonic Stem Cells

Embryonic (ES) stem cells isolated from rodent or human embryos retain the potential to form
15 embryonic tissues. When ES cells such as the mouse 129/SvJ cell line are placed in a blastocyst from the C57BL/6 mouse strain, they resume normal development and contribute to tissues of the live-born animal. ES cells are preferred for use in the creation of experimental knockout and knockin animals. In mice, the method for this process is well known in the art and the steps are: the cDNA is introduced into a vector, the vector is transformed into ES cells, transformed cells are identified and microinjected
20 into mouse cell blastocysts, blastocysts are surgically transferred to pseudopregnant dams. The resulting chimeric progeny are genotyped and bred to produce heterozygous or homozygous strains.

ES cells are also used for the treatment of victims of Parkinson's disease, stroke, and other neuropathologies (The Scientist, 14(18):1ff; September 2000). Pharmaceutical companies are also targeting disorders of the liver, kidney, and pancreas, specifically alpha-1 antitrypsin, polycystic kidney
25 disease, and diabetes, respectively. In time, traumatic damage to the nervous system and internal organs may also be treated by transplantation of cells or organs which are differentiated from embryonic stem cells. The present invention may be used to characterize the developmental pathways of the differentiation processes that give rise to brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues.

Knockout Analysis

In gene knockout analysis, a region of a gene is enzymatically modified to include a non-natural intervening sequence such as the neomycin phosphotransferase gene (neo; Capecchi (1989) Science
244:1288-1292). The modified gene is transformed into cultured ES cells and integrates into the endogenous genome by homologous recombination. The inserted sequence disrupts transcription and
35 translation of the endogenous gene.

Knockin Analysis

ES cells can be used to create knockin humanized animals or transgenic animal models of human diseases. With knockin technology, a region of a human gene is injected into animal ES cells, and the human sequence integrates into the animal cell genome. Transgenic progeny or inbred lines are
5 studied and treated with potential pharmaceutical agents to obtain information on the progression and treatment of the analogous human condition.

As described herein, the uses of the cDNAs, provided in the Sequence Listing of this application, and their encoded proteins are exemplary of known techniques and are not intended to reflect any limitation on their use in any technique that would be known to the person of average skill in
10 the art. Furthermore, the cDNAs provided in this application may be used in molecular biology techniques that have not yet been developed, provided the new techniques rely on properties of nucleotide sequences that are currently known to the person of ordinary skill in the art, e.g., the triplet genetic code, specific base pair interactions, and the like. Likewise, reference to a method may include combining more than one method for obtaining, assembling or expressing cDNAs that will be known to
15 those skilled in the art. It is also to be understood that this invention is not limited to the particular methodology, protocols, and reagents described, as these may vary. It is also understood that the terminology used herein is for the purpose of describing particular embodiments only, and is not intended to limit the scope of the present invention which will be limited only by the appended claims. The examples below are provided to illustrate the subject invention and are not included for the purpose
20 of limiting the invention.

EXAMPLES

For purposes of example, the preparation and sequencing of the BRAINON01 cDNA library is described. Preparation and sequencing of other cDNAs in libraries in the LIFESEQ database (Incyte Genomics) have varied over time, and the gradual changes involved use of kits, plasmids, and
25 machinery available at the particular time the library was made and analyzed.

I cDNA Library Construction

The BRAINON01 normalized cDNA library was constructed from cancerous brain tissue obtained from a 26-year-old Caucasian male during cerebral meningeal excision following diagnosis of grade 4 oligoastrocytoma localized in the right fronto-parietal part of the brain. The tumor had been
30 irradiated (5800 rads). Patient history included hemiplegia, epilepsy, ptosis of eyelid, and common migraine, and medications included Dilantin® (Parke-Davis, Morris Plains NJ).

The frozen tissue was homogenized and lysed using a POLYTRON homogenizer (PT-3000; Brinkmann Instruments, Westbury NY) in guanidinium isothiocyanate solution. The lysate was extracted with acid phenol, pH 4.7, per Stratagene RNA isolation protocol (Stratagene, San Diego
35 CA). The RNA was extracted with an equal volume of acid phenol, reprecipitated using 0.3 M sodium

acetate and 2.5 volumes of ethanol, resuspended in DEPC-treated water, and treated with DNase for 25 min at 37°C. The RNA extraction was repeated with phenol, pH 8.7, and precipitated with sodium acetate and ethanol as before. The mRNA was isolated with the OLIGOTEX kit (Qiagen, Chatsworth CA) and used to construct the cDNA library.

5 The mRNA was handled according to the recommended protocols in the SUPERSCRIP^T plasmid system (Life Technologies). cDNAs were fractionated on a SEPHAROSE CL4B column (Amersham Pharmacia Biotech), and those cDNAs exceeding 400 bp were ligated into PSPORT I plasmid (Life Technologies). The plasmid was transformed into DH5 α competent cells (Life Technologies) to construct the BRAINOT03 library.

10 II Normalization of the cDNA Library

4.9 x 10⁶ independent clones of the BRAINOT03 library were grown in liquid culture under carbenicillin (25mg/L) and methicillin (1mg/ml) selection following transformation by electroporation into DH12S competent cells (Life Technologies). The culture was monitored using a DU-7 spectrophotometer (Beckman Coulter, Fullerton CA) until it reached an OD₆₀₀ of 0.2, and then
15 superinfected with a 5-fold excess of the helper phage M13K07 (Vieira et al. (1987) Methods Enzymol 153:3-11).

To reduce the number of highly expressed cDNAs, the library was normalized in a single round according to the procedure of Soares et al. (1994, Proc Natl Acad Sci 91:9928-9932) with the following modifications: 1) the primer to template ratio in the primer extension reaction was increased
20 from 2:1 to 10:1, 2) the ddNTP concentration was reduced to 150 μ M to allow generation of longer (400-1000nt) primer extension products, and 3) the reannealing hybridization was extended from 13 to 48 hours. After the single stranded DNA circles were purified by hydroxyapatite chromatography and converted to partially double-stranded by random priming, the cDNAs were electroporated into DH10B competent bacteria (Life Technologies) to construct the BRAINON01 normalized library.

25 III Isolation and Sequencing of cDNA Clones

Plasmid DNA was released from bacterial cells and purified using the REAL Prep 96 plasmid kit (Qiagen). This kit enabled the simultaneous purification of 96 samples in a 96-well block using multi-channel reagent dispensers. The recommended protocol was employed except for the following changes: 1) the bacteria were cultured in 1 ml of sterile TERRIFIC BROTH (BD Biosciences, Sparks
30 MD) with carbenicillin at 25 mg/L and glycerol at 0.4%; 2) the cultures were inoculated, incubated for 19 hours, and then lysed with 0.3 ml of lysis buffer; and 3) following isopropanol precipitation, the plasmid DNA pellet was resuspended in 0.1 ml of distilled water.

The cDNAs were prepared using a MICROLAB 2200 system (Hamilton, Reno NV) in combination with DNA ENGINE thermal cyclers (PTC200; MJ Research, Waltham MA). The
35 cDNAs were sequenced by the method of Sanger and Coulson (1975; J Mol Biol 94:441f) using ABI

PRISM 377 DNA sequencing systems (Applied Biosystems). Most of the sequences were sequenced using standard ABI protocols and kits (Applied Biosystems) at solution volumes of 0.25x - 1.0x. In the alternative, some of the sequences were sequenced using solutions and dyes from Amersham Pharmacia Biotech.

5

IV Selection of Sequences for the Microarray

Incyte clones were mapped to non-redundant Unigene clusters (Unigene database (build 46), NCBI; Shuler (1997) J Mol Med 75:694-698), and the 5' clone with the strongest BLAST alignment (at least 90% identity and 100 bp overlap) was chosen, verified, and used in the construction of the
10 microarray. The UNIGEM V microarray (Incyte Genomics) contains 7075 array elements which represent 4610 annotated genes and 2,184 unannotated clusters. Table 1 shows the GenBank 119 annotations for SEQ ID NOs:1-416 of this invention as produced by BLAST analysis.

V Homology Searching of Polynucleotides and Proteins

BLAST involves finding similar segments between the query sequence and a database
15 sequence, evaluating the statistical significance of any similarities, and reporting only those matches that satisfy a user-selectable threshold of significance. BLAST produces alignments of both nucleotide and amino acid sequences to determine sequence similarity.

The fundamental unit of the analysis is the High scoring Segment Pair (HSP). An HSP consists of two sequence fragments of arbitrary, but equal lengths, whose alignment is locally maximal
20 and for which the alignment score meets or exceeds threshold of significance set by the user.

The basis of the search is the product score, which is defined as:

$$\frac{\% \text{ sequence identity} \times \% \text{ maximum BLAST score}}{100}$$

The product score takes into account both the degree of identity between two sequences and the
25 length of the sequence match as reflected in the BLAST score. The BLAST score is calculated by scoring +5 for every base that matches in an HSP and -4 for every mismatch. For a product score of 40, the match will be exact within a 1% to 2% error and for a product score of 70, the match will be exact. Homologous molecules usually show product scores between 15 and 40, although lower scores may identify related molecules. The P-value for any given HSP is a function of its expected frequency
30 of occurrence and the number of HSPs observed against the same database sequence with scores at least as high.

Percent sequence identity is found in a comparison of two or more amino acid or nucleic acid sequences. Percent identity can be determined electronically using the MEGALIGN program, a component of LASERGENE software (DNASTAR). The percent similarity between two amino acid
35 sequences is calculated by dividing the length of sequence A, minus the number of gap residues in

sequence A, minus the number of gap residues in sequence B, into the sum of the residue matches between sequence A and sequence B, times one hundred. Gaps of low or of no homology between the two amino acid sequences are not included in determining percentage similarity.

Sequences with conserved protein motifs may be searched using the BLOCKS search program.

- 5 This program analyses sequence information contained in the Swiss-Prot and PROSITE databases and is useful for determining the classification of uncharacterized proteins translated from genomic or cDNA sequences (Bairoch et al. (1997) *Nucleic Acids Res* 25:217-221; Attwood et al. (1997) *J Chem Inf Comput Sci* 37:417-424). PROSITE database is a useful source for identifying functional or structural domains that are not detected using motifs due to extreme sequence divergence. Using
- 10 weight matrices, these domains are calibrated against the SWISS-PROT database to obtain a measure of the chance distribution of the matches.

- The PRINTS database can be searched using the BLIMPS search program to obtain protein family "fingerprints". The PRINTS database complements the PROSITE database by exploiting groups of conserved motifs within sequence alignments to build characteristic signatures of different
- 15 protein families. For both BLOCKS and PRINTS analyses, the cutoff scores for local similarity were: >1300=strong, 1000-1300=suggestive; for global similarity were: $p < \exp^{-3}$; and for strength (degree of correlation) were: >1300=strong, 1000-1300=weak.

VI Extension of cDNA Clones

- Some of the nucleic acid sequences of the Sequence Listing, designed F, R, or T, were
- 20 produced by extension of an appropriate fragment of the original clone insert using oligonucleotide primers designed from this fragment. One primer was synthesized to initiate 5' extension of the known sequence, and the other primer, to initiate 3' extension of the known sequence. The initial primers were designed using OLIGO software (Molecular Insights, Cascade CO), or another appropriate program, to be about 22 to 30 nucleotides in length, to have a GC content of about 50% or more, and to anneal to
- 25 the target sequence at temperatures of about 68°C to about 72°C. Any stretch of nucleotides which would result in hairpin structures and primer-primer dimerizations was avoided.

Selected human cDNA libraries were used to extend the sequence. If more than one extension was necessary or desired, additional or nested sets of primers were designed.

- High fidelity amplification was obtained by PCR using methods well known in the art. PCR
- 30 was performed in 96-well plates using the DNA ENGINE thermal cycler (MJ Research). The reaction mix contained DNA template, 200 nmol of each primer, reaction buffer containing Mg^{2+} , $(NH_4)_2SO_4$, and β -mercaptoethanol, Taq DNA polymerase (Amersham Pharmacia Biotech), ELONGASE enzyme (Life Technologies), and Pfu DNA polymerase (Stratagene), with the following parameters for primer pair PCI A and PCI B: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 68°C,
- 35 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C. In the

alternative, the parameters for primer pair T7 and SK+ were as follows: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 57°C, 1 min; Step 4: 68°C, 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C.

The concentration of DNA in each well was determined by dispensing 100 µl PICOGREEN reagent (0.25% v/v PICOGREEN (Molecular Probes, Eugene OR) dissolved in 1x TE) and 0.5 µl of undiluted PCR product into each well of an opaque fluorimeter plate (Corning Costar, Acton MA), allowing the DNA to bind to the reagent. The plate was scanned in a Fluoroskan II (Labsystems Oy, Helsinki FI) to measure the fluorescence of the sample and to quantify the concentration of DNA. A 5 µl to 10 µl aliquot of the reaction mixture was analyzed by electrophoresis on a 1 % agarose minigel to determine which reactions were successful in extending the sequence.

The extended nucleotides were desalted and concentrated, transferred to 384-well plates, digested with CviJI cholera virus endonuclease (Molecular Biology Research, Madison WI), and sonicated or sheared prior to religation into pUC 18 vector (Amersham Pharmacia Biotech). For shotgun sequencing, the digested nucleotides were separated on 0.6% to 0.8% agarose gels, fragments were excised, and agar digested with AGARACE (Promega). Extended clones were religated using T4 ligase (New England Biolabs, Beverly MA) into pUC 18 vector (Amersham Pharmacia Biotech), treated with Pfu DNA polymerase (Stratagene) to fill-in restriction site overhangs, and transfected into competent *E. coli* cells. Transformed cells were selected on antibiotic-containing media, and individual colonies were picked and cultured overnight at 37°C in 384-well plates in LB/2x carbenicillin liquid media.

The cells were lysed, and DNA was amplified using Taq DNA polymerase (Amersham Pharmacia Biotech) and Pfu DNA polymerase (Stratagene) with the following parameters: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 72°C, 2 min; Step 5: steps 2, 3, and 4 repeated 29 times; Step 6: 72°C, 5 min; Step 7: storage at 4°C. DNA was quantified by PICOGREEN reagent (Molecular Probes) as described above. Samples with low DNA recoveries were reamplified using the conditions described above. Samples were diluted with 20% dimethylsulphoxide (1:2 v/v), and sequenced using DYENAMIC energy transfer sequencing primers and the DYENAMIC DIRECT kit (Amersham Pharmacia Biotech) or the ABI PRISM BIGDYE terminator kit (Applied Biosystems).

VII mRNA for Target Polynucleotides

The mRNAs or tissues for preparing target polynucleotides were obtained from Biochain Institute (San Leandro CA), International Institute for Advanced Medicine (Exeter PA), and Oncormed (Gaithersburg MD). RNA was extracted from tissue samples using the extraction protocol and purification procedures described above.

VIII Microarray Preparation, Labeling of Targets, and Hybridization Analyses

35 Substrate Preparation

Probe polynucleotides were amplified from bacterial vectors by thirty cycles of PCR using

primers complementary to vector sequences flanking the insert and purified using SEPHACRYL-400 beads (Amersham Pharmacia Biotech). Purified polynucleotides were robotically arrayed onto a glass microscope slide (Corning Science Products, Corning NY) previously coated with 0.05% aminopropyl silane (Sigma-Aldrich) and cured at 110°C. The microarray was exposed to UV irradiation in a

5 STRATALINKER UV-crosslinker (Stratagene).

Target Preparation

Each mRNA sample, shown in Table 2, was reverse transcribed using MMLV reverse transcriptase in the presence of dCTP-Cy3 or dCTP-Cy5 (Amersham Pharmacia Biotech) according to standard protocol. After incubation at 37°C, the reaction was stopped with 0.5 M sodium hydroxide, and RNA was degraded at 85°C. The target polynucleotides were purified using CHROMASPIN 30 columns (Clontech, Palo Alto CA) and ethanol precipitation.

Hybridization

The hybridization mixture, containing 0.2 mg of each of the Cy3 and Cy5 labeled target polynucleotides, was heated to 65°C, and dispensed onto the UNIGEM V microarray (Incyte Genomics) surface. The microarray was covered with a coverslip and incubated at 60°C C. The microarrays were sequentially washed at 45°C in moderate stringency buffer (1xSSC and 0.1% SDS) and high stringency buffer (0.1xSSC) and dried.

Detection

A confocal laser microscope was used to detect the fluorescence-labeled hybridization complexes. Excitation wavelengths were 488 nm for Cy3 and 632 nm for Cy5. Each array was scanned twice, one scan per fluorophore. The emission maxima was 565 nm for Cy3 and 650 nm for Cy5. The emitted light was split into two photomultiplier tube detectors based on wavelength. The output of the photomultiplier tube was digitized and displayed as an image, where the signal intensity was represented using a linear 20 color transformation, with red representing a high signal and blue a low signal. The fluorescence signal for each probe was integrated to obtain a numerical value corresponding to the signal intensity using GEMTOOLS expression analysis software (Incyte Genomics).

IX Data Analysis and Results

Out of the 7075 genes present on UNIGEM V, 3627 genes or 51 % were expressed at a significant level across all 30 tissue samples. Significance was defined as signal to background ratio exceeding 2.5 and area hybridization exceeding 40% for both probes. All data was transformed so that differential gene expression values were Log base 2 scale.

Analysis of Variance

For each gene, an ANOVA test was run using the tissue categories as the grouping variable. The ANOVA tested whether measurements across samples belonging to known categories were associated with those categories. ANOVA compares the Variance between (Vb) categories to the Variance within (Vw) categories. The ratio of Vb divided by Vw (F ratio) was compared to the F

distribution for a population of equal degree of freedom (DF) and the probability of the F ratio was returned.

Anova Computation

5

$$F = \frac{V_{between}}{V_{within}} \quad V_{within} = \frac{\sum_i (X_i - \bar{X}_G)^2}{(N - k)} \quad V_{between} = \frac{\sum_G N_G (\bar{X}_G - \bar{X}_T)^2}{(k - 1)}$$

$$DF = (N-k)*(k-1)$$

X_i : Individual value

N_G : Number of Individuals in Category

\bar{X}_G : Category Mean

\bar{X}_T : Population Mean

N : Number of Individuals

k : Number of Categories

The null hypothesis states that if the measurement variations between samples are due to chance only, the variance within categories and variance between categories should be the same.

- 10 Therefore, in the absence of any significant association between gene expression and tissue categories, the probability returned by ANOVA is equal to 1. Reciprocally, a strong association between gene expression and tissue categories implies that the variance between samples is significantly greater than the variance within categories, and therefore the probability returned by ANOVA is small.

The data for the 340 genes shown in Table 3 was used to produce Table 4 which shows that each gene

- 15 selected for annotation scored an ANOVA probability equal or below 10^{-5} .

Gene Annotation

Since selection criterion imposed that the variances of measurement within tissue categories were small (see above), it was acceptable to summarize these measurements as the average of the measurements within each tissue category. Furthermore, in order to emphasize differences between

20 tissue categories for each gene, the differences between tissue averages and all-tissues average were computed; formula and values are shown in Table 5.

Using these differential average values, genes were associated with a primary tissue category according to the highest differential average value. A minimum differential average value of 1.5 was required to associate a gene with a tissue category. When possible, genes were associated with a

25 secondary, tertiary, and even quaternary tissue category according to the second, third, and fourth highest differential average values, respectively.

X Screening Molecules for Specific Binding with the Polynucleotide or Protein

The polynucleotide or fragments thereof and the protein or portions thereof are labeled with ^{32}P -dCTP, Cy3-dCTP, Cy5-dCTP (Amersham Pharmacia Biotech), or BIODIPY or FITC (Molecular

30 Probes), respectively. Candidate molecules or compounds previously arranged on a substrate are

incubated in the presence of labeled nucleic or amino acid. After incubation under conditions for either a

polynucleotide or protein, the substrate is washed, and any position on the substrate retaining label, which indicates specific binding or complex formation, is assayed. The binding molecule is identified by its arrayed position on the substrate. Data obtained using different concentrations of the nucleic acid or protein are used to calculate affinity between the labeled nucleic acid or protein and the bound molecule.

- 5 High throughput screening using very small assay volumes and very small amounts of test compound is fully described in Burbaum et al. USPN 5,876,946.

All patents and publications mentioned in the specification are incorporated herein by reference. Various modifications and variations of the described method and system of the invention will be apparent to those skilled in the art without departing from the scope and spirit of the invention.

- 10 Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. Indeed, various modifications of the described modes for carrying out the invention that are obvious to those skilled in the field of molecular biology or related fields are intended to be within the scope of the following claims.

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
1	2380381	209	1345551CBI	heart	g602702 mitochondrial 2,4-dienoyl-CoA
2	1618422	210	1618422.con	heart	g285990 mRNA for KIAK0002 gene
3	2672064	211	4646418CBI	heart	g1399027 cysteine rich prot 2
4	608361	212	608361.con	heart	g6808282 mRNA; cDNA DKFp586O0221
5	1922596	213	2483470CBI	heart	g3452378 glutamate oxaloacetate transaminase, exon 9
6	1850033	214	1850033CBI	heart	g189010 HUMMLC2At
7	986987	215	3030106CBI	heart	g809558 mRNA for cardiac myosin bindin
8	718807	216	718807.con	heart	g1526977 mRNA for ryanodine receptor 2
9	2880435	217	2880435.con	heart	g1841371 MURR1 mRNA
10	187326	218	187326.con	heart	g4071059 TNNT3
11	3208425	219	3208425.con	skel muscle	g28596 aldolase A
12	1668474	220	1668474.con	skel muscle	g178645 erythroid ankyrin mRNA
13	1622542	221	1622542.con	skel muscle	g3882276 mRNA for KIAA0778 protein
14	4014318	222	4014318.con	skel muscle	g306472 DHP-sensitive calcium channel
15	2394888	223	1485879CBI	skel muscle	g791039 mRNA for skeletal muscle-specific calpain
16	1345550	224	2637261CBI	skel muscle	g179787 carbonic anhydrase III
17	1719955	225	1719955.con	skel muscle	g34788 mRNA for muscle specific enolase
18	2256026	226	2256026.con	skel muscle	g1021572 CpG island DNA genomic Mse I fragment
19	1538086	227	2501821CBI	skel muscle	g1212945 mRNA for guanidinoacetateN-methyltransferase
20	958633	228	1532783CBI	skel muscle	g7297634 CG5676 gene product
21	2635943	229	3013501CBI	skel muscle	g3153910 muscle glycogen phosphorylase
22	121888	230	3405838CBI	skel muscle	g4808812 myosin heavy chain IIa
23	1627492	231	1627492.con	skel muscle	g3127082 FIP2 alternatively translated mRNA
24	4073867	232	3354111CBI	skel muscle	g4426911 phytanoyl-CoA alpha hydroxylase
25	2190170	233	1866437CBI	skel muscle	g5759308 putative glioblastoma cell differentiation-related protein
26	972224	234	972224.con	skel muscle	g1220345 myosin light chain 2
27	1413644	235	1413644CBI	skel muscle	g409928 adenyl cyclase-associated prot (CAP2)
28	1538224	236	1538224.con	skel muscle	g439602 Rad mRNA
29	2623268	237	2623268.con	skel muscle	g6523810 FEZ2 protein
30	1665533	238	1665533.con	skel muscle	g1620035 XIB mRNA, complete cds
31	981484	239	981484CBI	skel muscle	g34837 MYF6 for muscle determination factor
32	973629	240	973629.con	skel muscle	g188591 alkali myosin light chain I

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
33	1539638	241	1539638CB1	skel muscle	g188582 myosin light chain 1 slow a
34	3015758	242	3010791CB1	skel muscle	g402646 mRNA for fast MyBP-C
35	2832314	243	2832314.con	skel muscle	g338826 TCB gene encoding cytosolic thyroid hormone-binding protein
36	1702996	244	912973CB1	skel muscle	g180621 cytoplasmic linker protein-170 alpha 2
37	839947	245	122365CB1	skel muscle	g337721 ryanodine receptor mRNA
38	1867522	246	974936CB1	skel muscle	g1943766 sarcolipin
39	1987831	247	1987831.con	skel muscle	g180708 calcineurin A2
40	2639708	248	1642009CB1	skel muscle	g339964 slow-twitch skeletal troponin I
41	973815	249	2148260CB1	skel muscle	g546020 troponin T
42	2079906	250	1852756CB1	Uterus	g190153 replication factor C
43	2852042	251	2852042.con	Uterus	g181070 cysteine-rich peptide mRNA
44	2368282	252	2665890CB1	Ovary	g181375 cholesterol side-chain cleavage
45	2831248	253	2831248.con	Ovary	g32344 gene for heterogeneous RNP
46	182802	254	182802.con	Ovary	g257052 3 beta-hydroxysteroid dehydrogenase
47	1003884	255	1520287CB1	Ovary	g186836 laminin B1 chain
48	1120	256	1120.con	Ovary	g35902 mRNA for ribosomal protein L7
49	1285380	257	1516165CB1	Stomach	g7339519 mRNA for procathepsin E
50	1636639	258	1636639.con	Stomach	g3005731 clone 24747 mRNA sequence
51	1985870	259	1985870.con	Stomach	g8346840 partial LGALS9 gene for galectin 9 exons
52	1677936	260	3665933CB1	Stomach	g31771 mRNA for gastric lipase
53	910612	261	910612.con	Stomach	g38068 Japanese macaque pepsinogen A-2/3
54	2594407	262	807530CB1	Stomach	g1658285 gastricsin mRNA
55	963536	263	963536.con	Stomach	g35706 pS2 mRNA induced by estrogen
56	434377	264	434377.con	Intestine	g599833 VE-cadherin mRNA
57	2121863	265	2121863.con	Intestine	g719268 cysteine-rich heart protein (hCRHP)
58	1597231	266	1597231CB1	Intestine	g1185451 cytochrome P450 monooxygenase
59	4174437	267	4174437.con	Intestine	g181532 defensin 5 gene
60	2182901	268	2182901.con	Intestine	g181546 defensin 6 mRNA
61	1747979	269	1811382CB1	Intestine	g30822 mRNA for diacylglycerol kinase
62	1630553	270	1630553.con	Intestine	g178285 angiotensin I-converting enzym
63	478960	271	155179CB1	Intestine	g6647301 matriptase mRNA
64	2132487	272	2132487.con	Intestine	g391772 regenerating protein 1

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
65	2921152	273	2921152CBI	Intestine	g971462 mRNA for I-1SP (I-BABP)
66	1846428	274	1800311CBI	Intestine	g183414 guanylin mRNA
67	2796143	275	610574CBI	Intestine	g2924619 mRNA for hepatocyte growth factor activator inhibitor type 2
68	1805613	276	1805613.con	Intestine	g1814276 A33 antigen precursor
69	1431273	277	989613CBI	Intestine	g535474 N-benzoyl-L-tyrosyl-p-amino-benzoic acid hydrolase
70	1804662	278	1804662.con	Intestine	g2058317 mRNA for putative carboxylesterase
71	2921194	279	2921194.con	Intestine	g2385451 mRNA for galectin-3
72	395368	280	395368.con	Intestine	g2826520 maltase-glucoamylase
73	2182861	281	1845979CBI	Intestine	g454153 intestinal mucin (MUC2)
74	1806436	282	1751028CBI	Intestine	g187468 P-glycoprotein (PGY1)
75	2922143	283	1501077CBI	Intestine	g36644 si mRNA for sucrase-isomaltase
76	876720	284	3130321CBI	Lung	g190845 receptor for advanced glycosylation end products (RAGE)
77	1910091	285	1910091.con	Lung	g1699037 ABC3 mRNA
78	2174130	286	2174130.con	Lung	g181467 decay-accelerating factor
79	2219077	287	6580818	Lung	g6580814 indolethylamine N-methyltransferase
80	1965041	288	1965041.con	Lung	g3882236 mRNA for KIAA0758 protein
81	1649959	289	1649959.con	Lung	g186729 mesothelial keratin K7
82	1222317	290	1222317CBI	Lung	g179916 CAPL protein mRNA
83	2510171	291	939088CBI	Lung	g36490 secretory leucocyte protease inhibitor
84	1988674	292	1988674.con	Lung	g190673 pulmonary surfactant-associated prot B
85	1672640	293	1672640.con	Lung	g37946 mRNA for pre-pro-von Willebrand
86	1926543	294	g4884115	Liver	g23875 3-oxoacyl-CoA thiolase
87	1504934	295	1504934.con	Liver	g28560 peroxisomal L-alanine:glyoxylate aminotransferase
88	2512879	296	2512879.con	Liver	g178089 class I alcohol dehydrogenase (ADH1) alpha subunit
89	1359832	297	1359832.con	Liver	g5002378 alcohol dehydrogenase beta2 subunit
90	1583076	298	1583076.con	Liver	g178147 alcohol dehydrogenase class I gamma subunit
91	139838	299	139838CBI	Liver	g178120 class II alcohol dehydrogenase (ADH4)
92	1344654	300	1344654.con	Liver	g219409 mRNA for alpha-2-plasmin inhibitor
93	2513979	301	2513979.con	Liver	g28747 mRNA for apolipoprotein AII prec
94	2369312	302	2369312.con	Liver	g28802 mRNA for precursor of apolipoprotein CI
95	2048364	303	2514629CBI	Liver	g28805 mRNA for lipoprotein apoCII
96	85246	304	85246.con	Liver	g178856 apolipoprotein H

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
97	166337	305	139825CB1	Liver	g178994 liver arginase mRNA
98	138274	306	138274CB1	Liver	g179078 asialoglycoprotein receptor H1
99	1633340	307	4285165CB1	Liver	g5020419 carbamyl phosphate synthetase I
100	1982416	308	630729CB1	Liver	g180255 ceruloplasmin
101	946822	309	946822.con	Liver	g182389 coagulation factor X
102	2517330	310	2517330.con	Liver	g179721 complement component C8-gamma
103	2516489	311	272669CB1	Liver	g179970 corticosteroid binding globulin
104	88741	312	138361CB1	Liver	g180986 cytochrome P450IIA3 (CYP2A3)
105	168865	313	168865CB1	Liver	g263688 cytochrome P450 2C [Macaca
106	231779	314	271684CB1	Liver	g510085 (clone NF 10) cytochrome P450 nifedipine oxidase
107	234123	315	2513588CB1	Liver	g181394 cytosolic epoxide hydrolase
108	1833801	316	1626663CB1	Liver	g8164183 22kDa peroxisomal membrane p
109	1923613	317	1923613.con	Liver	g6523808 carbonyl reductase mRNA
110	2058620	318	2058620.con	Liver	g7023255 cDNA FLJ10913 fis
111	1930954	319	1965888CB1	Liver	g7023313 cDNA FLJ10948 fis
112	1511658	320	1486348.con	Liver	g182406 fibrinogen alpha subunit
113	2590673	321	2590673.con	Liver	g188630 flavin-containing monooxygenase form II
114	1995380	322	1995380.con	Liver	g183655 glutathione S-transferase
115	167409	323	2078240CB1	Liver	g31675 mRNA for group-specific component
116	1846226	324	1846226.con	Liver	g6759555 mRNA for putative progesterone bp
117	2052185	325	185986CB1	Liver	g184487 hemopexin mRNA
118	2517389	326	085596CB1	Liver	g184391 histidine-rich glycoprotein
119	911015	327	1544305CB1	Liver	g2865608 homogentisate 1,2-dioxygenas
120	604856	328	149832CB1	Liver	g494988 nicotinamide N-methyltransferase
121	1448718	329	1448718.con	Liver	g183117 insulin-like growth factor bp
122	2517268	330	2517268.con	Liver	g33988 mRNA for inter-alpha-trypsin inhibitor
123	167134	331	085011CB1	Liver	g33984 second protein of inter-alpha-trypsin inhibitor complex
124	2843638	332	2843638.con	Liver	g3236285 leptin receptor short form
125	1813269	333	1297817CB1	Liver	g180947 carboxylesterase mRNA
126	1861971	334	2517374CB1	Liver	g24444 mRNA for alpha1-acid glycoprotein (orosomucoid)
127	2005973	335	2005973CB1	Liver	g189410 oxytocin mRNA
128	2515729	336	2515729CB1	Liver	g35896 mRNA for retinol binding protein

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
129	2132356	337	2132356.con	Liver	g35689 liver mRNA for protein C
130	1001726	338	2614869CB1	Liver	g5834471 mRNA for regucalcin
131	2631845	339	2631845.con	Liver	g1160968 serum amyloid A
132	86390	340	086390CB1	Liver	g337749 serum amyloid A protein
133	1287840	341	2881975CB1	Liver	g432974 sterol carrier protein X
134	2516905	342	g5596369	Liver	g5596369 transferrin receptor 2 alpha
135	606122	343	606122.con	Liver	g36712 mRNA for tyrosine aminotransferase
136	3553733	344	2515740CB1	Liver	g4530276 lipopolysaccharide-binding p
137	1813381	345	1272023CB1	Liver	g36574 mRNA for S-protein
138	1634342	346	1634342.con	Kidney	g2707821 aldehyde reductase (ALDR1)
139	1418871	347	629242CB1	Kidney	g3523100 Ksp-cadherin (CDH16)
140	3766382	348	3766382.con	Kidney	g2708638 carbonic anhydrase precursor
141	943181	349	3485891CB1	Kidney	g521073 mRNA for chloride channel
142	603761	350	3321896CB1	Kidney	g1809239 glycoprotein receptor gp330
143	1297562	351	1297562.con	Kidney	g2213812 podocalyxin-like protein
144	2910715	352	2910715.con	Kidney	g7768681 genomic DNA, chromosome 21q
145	196975	353	1612344CB1	Kidney	g296365 mRNA for propionyl-CoA carboxylase a-chain
146	1453049	354	1453049.con	Kidney	g452649 mRNA for lung amiloride sensitive Na+ channel
147	1968695	355	1881237CB1	Kidney	g339204 (clone V6) transcobalamin II
148	958344	356	3669695CB1	Kidney	g340165 uromodulin (Tamm-Horsfall glycoprotein)
149	254081	357	2776408CB1	Pancreas	g537511 alpha-amylase mRNA
150	1330674	358	1330674.con	Pancreas	g187149 bile salt-activated lipase (BAL)
151	2377834	359	2377834.con	Pancreas	g53329 mRNA for procarboxypeptidase A1
152	2075464	360	1307376CB1	Pancreas	g790226 preprocarboxypeptidase A2
153	2383235	361	4166960CB1	Pancreas	g180885 colipase mRNA
154	1285503	362	g180331	Pancreas	g180331 cystic fibrosis mRNA, CFTR
155	2383205	363	2383205.con	Pancreas	g182057 pancreatic elastase IIA mRNA
156	2015871	364	2015871.con	Pancreas	g607029 elastase III B mRNA
157	2374046	365	2088868CB1	Pancreas	g163497 PDI (E.C.5.3.4.1)
158	1709828	366	1709828.con	Pancreas	g325464 endogenous retrovirus type C oncovirus sequence
159	2061119	367	1515152CB1	Pancreas	g31107 mRNA for elongation factor 2
160	3665105	368	3665105.con	Pancreas	g1244511 pancreatic zymogen granule membrane protein GP-2

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
161	2068983	369	2068983.con	Pancreas	g893381 mRNA for Reg-related sequence
162	2242648	370	3526170CB1	Pancreas	g7023457 cDNA FLJ11041 fis
163	885032	371	5070239CB1	Pancreas	g187231 pancreatic lipase related prote
164	2383830	372	949518CB1	Pancreas	g190012 phospholipase A-2
165	2085191	373	2085191.con	Pancreas	g521215 pancreatic trypsin 1
166	2792982	374	2792982.con	Pancreas	g3928429 mRNA for trypsinogen IV a-form
167	243123	375	787351CB1	Brain	g1709300 amyloid precursor-like protei
168	382416	376	382416.con	Brain	g182736 cerebellar degeneration-assoc prot
169	1852659	377	1852659.con	Brain	g397934 a2-chimaerin
170	3220181	378	3220181.con	Brain	g251801 glial fibrillary acidic protein
171	1726307	379	1726307.con	Brain	g7669991 mRNA; cDNA DKFZp761L0516
172	1904244	380	1904244.con	Brain	Incye Unique
173	2039955	381	2039955.con	Brain	g600118 extensin-like protein
174	2675641	382	2675641.con	Brain	g189982 testis-specific cAMP-dependent prot kinase catalytic subunit
175	1412749	383	1412749.con	Brain	g6523828 P19 protein mRNA
176	1963854	384	1963854.con	Brain	g9588045 BRI3
177	2949085	385	2949085.con	Brain	g3892873 mRNA for GABA-B R1b receptor
178	2963196	386	2963196.con	Brain	g251801 glial fibrillary acidic protein
179	1505977	387	3493359CB1	Brain	g493133 glutamate receptor 2
180	1674985	388	1674985.con	Brain	g2894085 mRNA for p40
181	2109054	389	2109054.con	Brain	g5689336 mRNA for EB3 protein
182	3317039	390	3317039.con	Brain	g3451335 F22162_1
183	2838551	391	2838551.con	Brain	g4426596 islet-brain 1 mRNA
184	1477568	392	1477568.con	Brain	g4322560 cell-line OV177 DRR1
185	2963871	393	2963871.con	Brain	g2865218 integrin binding protein Del-1
186	1740547	394	2847104CB1	Brain	g1263035 neuronal membrane glycoprot
187	2292011	395	2292011.con	Brain	g1710283 neuronal olfactomedin-related ER localized prot
188	1349484	396	1349484.con	Brain	g3882192 mRNA for KIAA0736 protein
189	1674253	397	1674253.con	Brain	g1665814 mRNA for KIAA0275 gene
190	1932189	398	1932189.con	Brain	g307306 neuroendocrine-specific protein A
191	1403041	399	1558165CB1	Brain	g687589 (AF1q) mRNA
192	1486358	400	1486358.con	Brain	g35958 beta-tubulin gene (5-beta)

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
193	1439065	401	3869211CB1	Brain	g2645406 calmodulin-stimulated phosphodiesterase PDE1B1
194	530629	402	530629.con	Brain	g1710192 clone 23586 mRNA sequence
195	1672676	403	g559331	Brain	g559331 mRNA for KIAA0080 gene
196	1989129	404	1989129.con	Brain	g1503987 mRNA for KIAA0202 gene
197	1486348	405	1486348.con	Brain	g662277 mRNA for MOBP
198	1397294	406	1397294.con	Brain	g1236938 transcriptional activator mRN
199	2844322	407	2844322.con	Brain	g1927201 FEZ1 mRNA
200	1481440	408	1481440.con	Brain	3' of g1403054???
201	26459	409	026459CB1	Brain	g3290199 peanut-like 2 (PNUTL2) mRNA
202	1406786	410	1406786.con	Brain	g7669991 mRNA; cDNA DKFZp761L0516
203	1485846	411	1485846.con	Brain	g190084 proteolipid protein
204	2153242	412	2153242.con	Brain	g5817080
205	2157981	413	3335607CB1	Brain	g2921407 EEN-B1 mRNA
206	3244361	414	3244361.con	Brain	g31657 GAT1 mRNA for GABA transporter
207	1986737	415	1289007CB1	Brain	g307287 (clone CCG-B7) mRNA sequence
208	2506867	416	1286746CB1	Brain	g35439 mRNA for protein gene product

Table 2

Source No:	Tissue	Age	Ethnicity/Sex	Cause of Death	Conditions or Diseases
122	Ventricle	39	C/M	gunshot wound	
1822	Heart	44	C/M	intracranial hemorrhage	
B7015	Heart				
6986	Skeletal Muscle	23	A/M	accident	type II diabetes
376	Tibia	41	C/F	NA	cancer
4071	Thigh	64	C/F	NA	
6987	Uterus	45	A/F	accident	
6988	Uterus	49	A/F	accident	
1119	Ovary	47	C/F	NA	cancer
6989	Stomach	59	A/F	accident	
6990	Stomach	45	A/M	accident	
6991	Sm Intestine	57	A/F	accident	
6392	Colon	69	A/F	accident	
3779	Lung	13	C/M	intracranial hemorrhage	
2881	Lung	1.1	C/F	drowning	
2152	Lung	12	C/M	accident	ADD, hyperactivity
4209	Liver	56	C/F	NA	cancer
4133	Liver	60	C/M	NA	cancer
2147	Liver	8	C/F	closed head injury	diabetes, asthma
6993	Kidney	72	A/M	accident	
6994	Kidney	26	A/M	accident	
6995	Kidney	46	A/M	accident	
6996	Pancreas	24	A/M	accident	
6997	Spleen	28	A/M	accident	
6998	Spleen	33	A/M	accident	
6999	Brain	27	A/M	accident	
7000	Brain	23	A/M	accident	
3971	Striatum	78	C/M	NA	Alzheimer's

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2380381	1.38	1.32	2.04	0.77	-0.26	-0.14	-0.93	-1.00	-0.38	-0.38	-0.38	-0.26	0.14	0.26	-0.85
1618422	1.14	1.14	1.38	-1.58	-1.38	-1.43	0.58	0.68	-0.26	-0.26	-0.68	0.38	0.68	0.14	-0.26
2672064	2.23	2.17	1.58	-0.26	-0.58	-0.68	0.58	0.58	-0.85	-0.38	0.00	-0.58	-0.68	-0.38	0.49
608361	2.70	1.89	1.68	0.68	0.38	-0.14	0.93	0.58	-0.77	0.58	0.26	0.26	0.14	-0.14	0.00
1922596	1.72	1.81	1.49	1.85	1.07	0.68	-2.00	-2.10	-1.93	-1.20	-0.49	-1.00	-1.00	-0.77	-1.85
1850033	1.26	4.06	1.00	-1.00	-0.85	-1.14	-1.49	-1.81	-2.07	-1.68	-1.89	-1.68	-2.23	-2.04	-1.85
986987	3.83	3.20	2.93	-2.07	-1.26	-1.93	-2.38	-2.32	-2.66	-2.04	-2.81	-2.68	-2.77	-2.70	-2.23
718807	2.79	3.39	3.25	-1.14	-0.85	-1.00	-1.63	-1.68	-1.14	-0.93	-1.63	-1.38	-1.20	-1.77	-0.85
2880435	1.96	1.68	2.29	-0.77	-0.49	-0.77	0.14	0.14	-0.58	-0.49	-0.38	-0.26	0.00	-0.49	-0.14
187326	3.87	3.14	3.69	-0.58	-0.26	-0.38	-2.49	-1.96	-2.49	-2.56	-2.46	-2.79	-2.66	-2.66	-2.04
1997963	2.61	2.23	1.81	2.81	1.38	1.54	-1.63	-1.72	-1.63	-1.20	-1.07	-1.14	-1.43	-1.07	-1.68
467700	3.42	3.14	2.89	1.20	1.89	1.20	0.00	-0.77	-2.23	0.14	-1.14	-0.38	-1.54	-1.26	-1.85
57382	2.66	2.17	2.46	3.05	2.00	1.81	-2.63	-2.17	-2.51	-2.00	-1.85	-2.35	-2.23	-2.20	-2.96
1222442	2.29	1.63	1.93	2.14	1.32	0.85	-1.85	-1.96	-1.85	-0.58	-0.49	-0.14	-0.85	-0.14	-1.49
4013105	3.45	2.32	2.77	1.63	1.58	1.26	-1.00	-0.58	-1.93	-2.70	-2.07	-2.81	-3.00	-2.98	-1.93
924319	3.54	3.12	2.63	0.58	2.43	-1.26	-3.38	-3.55	-3.43	-3.66	-3.85	-3.67	-3.95	-4.05	-1.43
1645119	2.79	2.43	1.81	0.85	1.38	2.07	-1.14	-1.07	-1.07	-1.49	-0.93	-0.93	-1.00	-0.85	-1.00
1379925	3.17	2.98	2.46	2.23	2.61	2.54	-1.93	-1.54	-2.00	-2.20	-1.54	-2.04	-2.14	-2.20	-1.54
1900961	1.54	2.89	2.38	1.63	0.85	1.68	0.77	0.49	-1.54	-0.68	-1.72	-0.26	-0.85	-0.58	-2.04
3506985	2.35	1.72	1.93	1.07	2.43	1.63	-2.46	-2.56	-2.85	-1.32	-1.14	-0.93	-1.20	0.38	0.00
551403	2.29	1.26	0.49	1.07	1.07	0.77	1.07	1.38	-0.58	0.00	0.14	-2.23	-1.72	-0.93	-1.68
3948420	2.29	1.20	0.58	1.26	1.14	0.93	1.07	1.43	-0.68	0.14	0.26	-2.14	-2.38	-1.00	-1.77
1722853	2.38	1.68	2.20	-0.58	0.00	-1.20	-0.85	-0.77	1.54	0.00	-0.14	-0.93	-0.93	-0.77	-0.77
1557490	1.89	2.04	1.54	-1.43	-1.38	-1.63	0.00	0.14	-1.72	-0.93	-1.07	-2.43	-2.17	-1.58	-1.26
3208425	0.93	1.14	0.38	3.34	1.49	2.29	-0.93	-0.85	-1.20	-0.68	-1.00	-0.68	-0.58	-0.38	-1.43
1668474	1.00	0.00	0.77	3.07	3.19	2.61	-1.49	-1.07	-1.14	-0.85	-1.14	-1.72	-1.43	-1.77	-1.38
1622542	-0.38	-0.58	-0.77	1.81	1.43	1.93	-0.85	-1.14	-1.00	-0.58	-0.77	0.00	-0.49	-0.38	-1.07
4014318	-0.14	0.26	-1.14	3.32	2.96	2.70	0.14	0.00	0.00	-0.26	-0.26	-0.49	-0.38	-0.49	0.00
2394888	-1.26	-1.20	-1.81	2.98	3.17	2.81	-1.43	-1.20	-1.26	-1.43	-1.63	-1.68	-1.43	-1.58	-0.49
1345550	-3.61	-3.90	-3.99	3.10	4.50	3.32	-3.46	-2.85	-4.09	-3.81	-4.06	-4.25	-3.84	-4.41	-3.36

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1719955	-0.26	0.49	-0.26	4.05	2.04	2.61	-2.72	-2.58	-2.51	-2.20	-2.49	-2.72	-2.32	-2.38	-1.96
2256026	-0.14	-0.14	-0.85	2.49	2.66	2.79	-0.26	-0.26	-0.49	-0.85	-0.85	-0.68	-0.68	-0.93	-0.26
1538086	-0.38	0.00	0.00	2.23	1.26	1.85	-1.20	-1.14	-1.00	-0.68	-1.14	-0.77	-0.93	-1.26	-1.14
958633	0.93	1.14	1.49	2.26	1.58	1.43	0.58	0.68	0.93	-0.26	-0.58	-0.68	-0.38	-0.26	-0.38
2635943	-2.20	-1.26	-2.04	4.00	2.91	2.98	-2.79	-2.58	-3.19	-2.29	-3.23	-3.17	-2.41	-3.10	-3.28
121888	-1.68	-1.72	-1.54	2.93	3.38	2.85	-3.60	-3.36	-3.42	-3.22	-3.38	-4.01	-3.90	-4.44	-2.98
1627492	0.00	0.26	0.14	2.41	2.07	2.20	0.00	-0.14	0.68	-0.58	-0.58	-0.58	0.00	-0.38	-1.14
4073867	0.85	0.49	0.26	2.35	1.38	1.68	-0.38	-0.38	0.00	-0.26	-0.26	-0.14	0.00	0.14	-0.85
2190170	0.49	0.49	0.38	2.93	2.14	2.38	0.68	0.58	0.68	0.00	-0.26	-0.14	0.00	0.14	0.26
972224	-2.26	-1.68	-3.56	4.73	3.29	3.26	-2.81	-2.81	-3.32	-2.72	-3.34	-3.54	-3.72	-3.61	-3.17
1413644	-0.14	0.00	-0.58	2.83	2.10	1.96	-0.85	-0.14	-1.58	-0.58	-1.63	-0.85	-0.93	-1.20	-1.89
1538224	0.68	1.77	1.07	1.89	2.07	1.38	0.14	-0.14	-0.26	-0.58	-0.93	-0.58	-0.38	-0.68	0.26
2623268	-0.58	0.14	-0.58	1.43	1.38	1.93	0.38	0.58	-0.26	0.58	-0.26	-0.85	-0.58	-0.49	-1.14
1665533	0.58	0.49	0.26	1.89	2.20	1.63	-0.14	-0.14	-0.26	-0.58	-0.38	-0.77	-0.26	-0.26	-0.14
981484	-0.77	-0.77	-0.58	1.72	1.85	2.17	-1.20	-1.20	-1.26	-0.58	-0.85	-0.93	-0.93	-1.14	-0.85
973629	-1.68	-0.85	-2.32	4.27	3.51	3.31	-2.87	-2.83	-3.09	-2.61	-2.72	-2.89	-2.96	-3.10	-3.41
1539638	-1.07	-0.49	-0.58	1.49	1.26	1.20	0.26	0.26	0.14	-0.26	-0.38	-0.14	0.00	-0.14	-0.49
3015758	-1.49	-1.68	-2.77	4.54	3.86	2.94	-2.63	-2.63	-2.58	-2.58	-2.49	-3.23	-2.66	-3.25	-2.20
2832314	0.85	0.85	0.38	2.58	1.72	0.93	-0.14	0.00	-0.26	-0.26	-0.26	-0.38	-0.38	-0.14	-0.26
1702996	-0.38	0.00	-0.26	2.00	2.00	2.10	1.07	0.77	-0.49	-0.14	0.49	-0.49	-0.14	-0.38	-0.68
839947	0.14	-0.38	-1.26	2.38	1.63	2.10	-1.58	-1.32	-1.72	-0.68	-0.38	-0.68	-0.77	-0.85	-0.68
1867522	-3.29	-2.10	-4.61	4.66	4.18	3.50	-4.88	-4.94	-5.17	-3.94	-3.90	-5.26	-4.37	-5.05	-3.88
1987831	0.14	-0.14	0.14	1.54	1.32	1.43	-0.26	-0.14	x	-0.38	-0.68	-0.38	-0.58	-0.77	-0.85
2639708	-1.72	-2.20	-1.58	3.41	3.17	3.45	-2.63	-2.61	-3.02	-2.72	-2.98	-2.49	-2.91	-2.89	-2.61
973815	-1.63	-2.26	-1.43	3.12	3.15	3.77	-2.58	-2.72	-3.02	-3.12	-2.98	-3.22	-3.66	-3.60	-2.41
169884	2.23	1.81	1.00	3.69	3.57	3.81	-2.07	-2.17	x	-1.32	-1.72	-1.54	-1.38	-2.26	-1.43
2638235	1.85	1.68	1.63	1.85	1.63	2.23	-1.00	-1.07	-1.32	-0.38	-0.14	-1.14	-1.20	-1.00	0.00
305198	2.89	1.32	1.85	2.85	2.66	2.68	-1.43	-1.93	-2.26	-1.14	-1.54	-1.68	-2.07	-2.00	-1.07
57997	1.14	1.77	0.58	3.92	2.85	3.50	-0.68	-0.93	-1.32	-0.58	-0.14	-1.43	-1.54	-1.63	-1.20
986558	2.68	2.41	2.04	3.25	2.35	2.23	-0.93	-0.93	-1.26	-1.32	-0.77	-1.58	-1.49	-1.54	-1.38

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
224996	1.63	-0.26	-0.68	3.29	3.23	2.98	0.58	-0.26	-2.20	-0.26	-1.26	-1.20	-1.58	-1.20	-1.77
661259	1.49	1.63	1.14	2.54	1.07	1.26	-1.00	-0.85	-1.32	-0.58	-0.49	-1.00	-1.14	-0.93	-1.54
3246379	0.85	2.00	0.14	3.00	1.68	2.63	-1.00	-1.07	-1.68	-1.14	-1.26	-1.38	-1.26	-1.43	-1.43
78783	1.81	0.77	0.93	1.43	2.32	1.49	-0.26	-0.26	-0.38	-0.14	0.14	-0.77	-0.26	-0.38	-0.14
2639181	1.93	2.32	2.00	4.22	2.68	3.07	-4.95	-4.87	-4.92	-5.22	-5.50	-5.00	-4.69	-4.86	-5.02
1672467	2.35	2.17	2.17	3.02	3.28	3.29	-1.38	-1.43	-2.49	-2.00	-2.17	-1.96	-2.23	-2.43	-2.38
2950063	0.77	0.77	0.49	2.85	3.23	2.77	-2.70	-2.72	-2.74	-2.72	-3.28	-4.06	-3.87	-4.41	-2.51
3288518	-0.85	-0.77	-1.85	4.15	4.26	3.61	-4.18	-4.19	-4.67	-4.65	-4.98	-6.14	-5.37	-5.49	-3.80
184110	2.72	-0.26	2.20	2.89	2.96	3.12	-4.28	-4.19	-4.49	-3.09	-3.93	-5.09	-4.13	-4.43	-3.83
1368173	1.26	0.93	0.85	2.70	1.93	1.77	-1.14	-1.00	-0.77	-1.43	-1.58	-1.43	-1.58	-1.54	-1.32
1813409	1.32	1.32	1.07	2.87	2.00	2.10	-1.14	-1.43	-1.96	-0.26	0.38	-0.93	-1.00	-0.49	-1.43
58309	1.96	2.14	1.68	3.10	3.94	3.81	-4.02	-4.19	-4.11	-2.43	-2.74	-3.61	-3.62	-2.89	-3.31
1721744	1.85	1.89	1.54	2.17	2.00	1.49	0.14	0.49	-0.26	-0.77	-0.26	-0.85	-0.58	-0.77	-1.00
1924344	0.00	-0.14	-0.68	3.42	3.54	2.74	1.07	0.26	-1.26	-0.14	-1.00	-0.49	-1.00	-0.93	-1.81
3176845	-0.14	-0.58	-1.00	2.98	2.81	2.83	1.63	1.63	-0.49	0.38	-1.38	-0.49	-1.20	-0.85	-2.23
2286809	0.26	1.63	0.58	3.17	2.93	3.02	-2.32	-1.89	-1.85	-0.93	-1.54	-0.77	-1.81	-0.68	-2.38
1985244	1.26	0.26	0.00	3.52	2.66	2.63	-0.85	-0.77	-0.26	-0.77	-1.20	-0.85	-0.93	-0.38	-1.07
1570042	-0.14	0.26	-0.38	2.51	1.68	1.54	-0.85	-0.93	-1.07	-1.00	-1.32	-1.68	-1.20	-1.32	-1.14
2079906	-1.63	-1.07	-1.68	-1.20	-1.14	-1.32	2.10	2.14	0.58	0.77	-0.85	0.85	0.49	0.58	-0.38
2852042	-1.68	-1.54	-2.23	-1.49	-2.07	-2.20	2.93	2.68	0.14	1.49	-0.14	0.85	0.14	0.26	-0.85
1319020	2.07	1.43	0.77	0.68	0.26	0.00	2.04	2.07	0.93	0.00	-0.58	-1.07	-0.38	-0.49	-0.93
1572555	1.38	0.77	0.77	1.14	0.68	0.68	1.96	1.58	0.00	0.85	-0.68	1.00	0.26	0.77	-1.54
782235	-1.32	-1.32	-1.89	-1.58	-2.04	-1.32	3.23	2.70	1.68	0.14	-1.07	-1.07	-1.14	-0.58	-0.38
1314882	0.00	-0.26	-0.49	-0.58	-0.49	-0.68	2.61	2.66	1.72	0.49	-0.85	-0.26	-0.26	0.00	0.58
1403636	-1.00	-0.26	-0.93	0.77	0.14	0.49	1.81	1.85	1.58	1.00	-0.49	0.38	-0.14	0.00	-0.68
1968921	0.00	-0.26	-0.26	-0.26	-0.68	-0.26	1.58	1.77	1.38	0.26	-0.49	0.14	-0.26	0.14	-0.58
1558081	0.38	0.00	0.14	0.38	-0.58	-0.49	2.23	1.81	1.32	0.49	0.00	-0.49	-0.38	0.38	0.14
2495131	1.00	0.26	0.00	1.20	1.85	1.00	2.51	2.66	2.14	0.49	-0.58	0.00	-0.38	0.14	0.14
4049957	-1.68	-1.49	-2.98	-1.49	-2.46	-2.32	3.39	3.14	1.14	1.20	-0.38	0.85	0.00	0.26	-1.00
1686585	-1.14	-0.38	-0.77	0.58	0.26	0.26	2.07	2.43	2.07	0.26	0.14	-1.00	-0.93	-0.58	-1.96

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2696735	-0.49	-1.07	-2.23	-1.77	-2.38	-2.38	3.22	2.81	-0.77	1.54	0.14	0.77	0.14	0.14	-2.56
1720149	-2.38	-1.38	-2.54	-1.85	-1.96	-2.04	2.77	2.79	0.49	1.32	0.00	1.32	1.07	0.77	-0.85
1866751	-2.23	-1.20	-2.49	-1.26	-1.20	-1.43	3.14	2.87	-0.49	2.10	0.14	1.96	1.20	1.20	-1.85
1851696	0.26	1.00	0.77	-0.38	-0.49	-0.49	2.04	2.79	1.00	1.14	0.26	1.32	0.77	1.38	1.54
93820	-1.77	-2.54	-2.14	-2.23	-1.85	-2.14	2.68	1.68	-1.68	-2.41	-2.43	-2.38	-2.26	-2.32	-2.29
2368282	-0.93	-1.14	-0.26	-0.68	-0.38	-0.58	-0.49	-0.77	3.64	-0.26	-0.93	-0.68	-0.85	-0.85	-0.58
2831248	0.00	0.00	0.00	0.00	0.00	-0.14	1.14	1.32	2.49	0.26	0.38	-0.26	-0.14	0.38	0.14
182802	-0.58	-0.68	-1.26	-0.58	-0.26	-0.93	-1.20	-1.07	3.54	0.00	-0.58	0.00	0.85	0.26	-1.07
1003884	0.14	0.26	0.49	-1.14	-0.26	-0.93	1.32	1.14	1.49	0.00	0.00	-0.14	0.14	0.38	0.77
1120	-0.38	0.00	0.14	0.49	0.38	0.38	0.58	1.14	2.23	0.14	0.14	-0.38	0.00	0.38	0.00
1308542	1.49	1.20	1.20	-0.49	-0.58	-0.68	-0.77	-1.07	1.32	0.49	0.14	-0.38	-0.68	-0.68	-0.26
3820761	0.58	0.00	1.07	0.77	-0.68	-0.38	1.54	1.43	2.23	0.14	-0.49	-0.77	-0.26	0.26	-0.38
1999167	0.14	0.26	-0.58	-1.77	-1.38	-1.81	1.20	1.49	1.38	0.38	-0.26	-0.38	0.00	0.00	-0.85
1522716	-0.14	0.00	-0.58	-0.14	-0.26	-0.49	2.07	2.04	3.04	0.14	0.14	-0.38	-0.58	0.14	0.38
1612969	-0.58	-0.77	-0.26	-0.77	-0.85	-0.85	0.26	-0.14	2.83	-0.68	-1.00	-1.00	-1.38	-1.00	-1.14
337500	-0.77	-0.68	-1.32	-0.85	-1.20	-1.26	1.07	1.38	2.54	0.49	0.58	0.14	0.14	0.58	-0.14
1285380	-0.68	-0.58	0.14	-0.58	-0.77	-0.68	-0.58	-0.58	-0.85	1.85	1.96	-0.14	-0.58	-0.49	0.14
1636639	0.77	0.49	0.93	-0.85	-0.38	-0.77	0.85	0.58	-0.68	1.49	2.46	0.49	0.49	0.49	0.00
1985870	-0.58	-0.58	-0.49	-0.68	-0.58	-0.85	-0.49	-0.58	-0.68	1.68	1.96	0.58	0.38	0.93	0.38
1677936	-5.83	-5.86	-5.13	-5.28	-4.60	-5.10	-5.38	-5.17	-5.33	3.82	3.64	-1.68	-5.19	-4.80	-4.85
910612	-4.84	-5.09	-3.51	-4.35	-3.98	-4.44	-4.75	-4.59	-4.54	3.89	3.67	-1.20	-5.17	-4.04	-4.45
2594407	-4.89	-5.01	-5.62	-4.76	-4.32	-4.56	-5.20	-5.08	-5.38	4.19	3.51	-1.26	-5.17	-4.45	-2.49
963536	-3.20	-2.96	-1.85	-2.74	-2.23	-2.70	-3.00	-3.12	-3.26	3.10	3.45	-1.32	-1.49	-2.10	-2.61
2252895	-0.93	-0.38	-2.14	-0.68	-0.14	-1.20	-1.54	-1.77	-1.81	3.12	3.38	1.85	1.72	1.72	-1.07
2804190	-0.58	-0.77	-0.49	-0.68	-0.49	-0.49	-0.68	-0.49	-0.49	2.00	1.58	1.26	1.63	1.14	-0.14
1998428	-2.74	-2.70	-2.46	-2.17	-1.32	-2.04	-2.46	-2.46	-2.38	3.00	3.26	0.38	1.07	0.85	-0.85
1800114	-2.20	-2.14	-2.32	-2.32	-1.38	-1.93	-1.85	-1.93	-2.04	1.58	1.26	0.85	1.54	1.81	-0.58
1806769	-1.68	-1.68	-2.29	-1.07	-0.68	-1.54	-1.81	-1.68	-1.54	2.04	2.35	0.38	1.63	1.96	0.68
2474163	-1.26	-1.07	-1.77	-0.26	-0.49	-1.00	-2.29	-2.00	-1.77	1.72	2.49	-1.93	-1.63	-2.04	-1.26
1435374	-2.41	-2.29	-3.04	-2.66	-2.23	-2.66	-2.63	-2.29	-1.49	1.14	1.38	0.58	0.85	1.20	0.26

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
434377	-0.14	-0.58	0.14	-0.26	0.26	-0.49	-0.38	-0.14	-1.00	-1.00	-1.20	1.68	2.00	2.32	0.77
2121863	-0.26	-0.26	-0.26	0.00	0.14	-0.58	1.14	0.85	-0.26	0.85	1.14	2.38	2.10	2.43	1.14
1597231	1.72	1.32	0.93	0.77	1.07	0.14	-1.38	-1.32	x	-0.38	-0.77	1.58	1.81	1.72	-0.85
4174437	-4.32	-4.47	-4.21	-3.47	-3.17	-3.47	-4.28	-3.74	-3.93	-1.89	-4.63	2.63	3.31	3.25	-3.07
2182901	-3.98	-4.10	-3.56	-3.02	-2.20	-3.22	-3.45	-3.25	-3.86	-1.89	-4.50	2.66	3.62	3.61	-3.09
1747979	-0.58	-0.49	-1.32	-0.77	-0.38	-0.68	0.26	0.14	-0.26	0.49	0.38	1.81	1.54	1.72	0.00
1630553	-1.14	-0.77	-1.54	-0.93	-0.85	-1.07	-1.20	-0.58	-1.96	-1.20	-1.63	3.12	2.98	3.00	-0.77
478960	-0.58	-0.85	-1.07	-0.49	-0.26	-0.58	-1.00	-0.77	-1.07	0.58	0.38	1.49	1.81	1.72	0.00
2132487	0.00	-0.58	-1.20	0.14	-0.14	-0.38	-0.77	-1.07	-1.00	0.49	-0.38	2.17	2.61	2.68	-0.38
2921152	-2.79	-3.04	-3.02	-2.81	-2.29	-2.68	-3.56	-3.19	-3.23	-2.49	-2.87	2.35	3.60	2.91	-2.93
1846428	-1.96	-1.77	-2.79	-0.77	-0.26	-0.68	-1.26	-1.38	-1.49	-1.77	-2.14	3.22	3.31	3.26	-1.20
2796143	-0.14	-0.93	-1.68	-1.43	-1.38	-1.77	-1.72	-1.89	-0.38	0.49	0.68	1.07	1.54	1.43	0.77
1805613	-0.38	-0.85	-1.85	0.00	0.14	-0.38	-0.85	-0.77	-0.85	0.00	-0.85	2.54	3.05	2.98	-0.49
1431273	-1.72	-1.96	-2.00	-1.85	-1.38	-2.26	-2.32	-2.56	-2.32	-1.38	-1.89	2.66	3.07	2.94	-1.68
1804662	-0.14	-0.49	-1.26	-0.77	-0.49	-1.00	-1.26	-1.14	-1.07	-0.38	-0.77	1.54	2.07	1.93	-1.58
2921194	-0.38	-0.14	0.00	-0.49	-0.85	-1.07	0.58	0.68	0.85	0.38	0.77	1.81	2.04	1.96	0.14
395368	-2.32	-2.23	-3.51	-2.14	-1.85	-2.10	-2.56	-2.49	-2.35	-1.38	-1.49	2.81	3.51	3.09	-1.54
2182861	0.14	0.00	-0.85	0.00	0.26	-0.14	-0.38	-0.26	-0.38	-0.26	-0.49	1.81	2.14	2.10	-0.58
1806436	-0.38	-1.07	-0.77	-1.26	-0.93	-1.00	-0.58	-0.38	x	-1.00	-1.07	1.89	2.14	1.81	-0.68
2922143	-1.68	-2.07	-3.32	-2.61	-2.43	-2.89	-3.36	-3.19	-3.56	-1.07	-1.96	2.63	3.39	3.41	-3.00
1696001	-0.26	-1.07	-0.77	-1.07	-1.20	-1.20	-1.49	-1.38	-1.77	-0.26	-1.00	2.38	2.81	2.26	-1.07
1635004	-2.41	-2.61	-3.55	-2.38	-1.77	-2.17	-2.96	-2.72	-2.61	1.32	0.93	2.68	3.10	3.09	-1.68
2132752	-2.10	-2.26	-3.68	-2.04	-1.07	-1.85	-2.07	-1.77	-1.38	1.54	2.32	2.29	3.09	3.38	-1.20
1734393	-2.91	-2.93	-3.23	-2.94	-2.00	-2.63	-3.29	-3.02	-2.58	1.32	0.58	2.17	2.72	2.72	-2.72
4179338	-3.46	-3.09	-4.82	-4.71	-4.26	-4.49	-4.97	-5.31	-5.16	-2.63	-4.98	2.26	3.26	2.56	-4.09
1427623	-1.54	-1.93	-2.04	-1.96	-1.32	-1.93	-2.23	-1.81	x	-0.38	-2.49	2.26	3.05	2.41	-1.89
3320987	-2.10	-2.17	-2.07	-2.00	-1.77	-2.29	-0.49	-0.38	-2.54	-2.35	-2.51	2.26	2.68	2.93	-2.46
2239819	-1.68	-1.77	-2.68	-1.20	-1.07	-1.26	-2.23	-2.14	-2.20	-1.72	-2.10	2.41	2.56	2.72	-1.85
876720	-0.68	-0.77	-1.07	-0.77	-0.77	-0.85	-0.77	-0.93	-1.00	-0.93	-1.07	-1.00	-0.58	-1.00	2.98
1910091	-0.14	-0.49	-0.93	0.00	-0.38	-0.38	-0.38	-0.49	-0.85	-0.68	-0.68	-0.49	-0.49	-0.58	1.85

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2174130	-0.49	0.00	-0.58	0.00	0.00	0.00	0.26	0.00	1.14	0.68	1.07	0.26	0.26	0.58	1.49
2219077	0.26	0.38	0.26	-0.49	-0.26	-0.38	-0.26	0.14	0.00	-0.14	-0.58	-0.14	-0.68	-0.58	1.43
1965041	0.93	0.85	0.93	0.14	0.85	0.00	0.38	0.77	-0.49	-0.77	-0.38	-1.07	-0.77	-0.85	1.77
1649959	-1.26	-1.20	-2.10	-0.77	-0.49	-0.68	-1.14	-1.20	-1.54	0.14	0.49	0.00	0.26	0.00	2.35
1222317	-0.26	-0.14	0.14	0.26	-0.26	-0.38	0.68	0.26	-1.07	0.14	0.00	0.00	-0.14	0.26	1.96
2510171	-1.68	-1.43	-0.26	-1.20	-0.77	-1.20	-1.63	-1.81	-1.85	0.14	0.00	-1.14	-1.32	-1.49	2.35
1988674	-1.32	-1.07	-1.54	-1.26	-0.58	-1.26	-0.85	-1.07	-1.20	-0.77	-0.68	-0.26	-0.68	-0.68	2.17
1672640	2.35	1.38	0.58	0.58	0.58	0.38	1.00	1.07	0.49	-0.14	-0.49	-0.77	-0.85	0.00	1.72
1749417	-1.72	-1.26	-1.77	-2.04	-1.93	-1.85	-0.58	-1.14	-0.85	-0.26	-0.14	-1.07	-0.58	-0.68	1.81
1926543	0.26	-0.14	-0.14	-0.58	-0.49	-0.77	-0.68	-0.93	-0.58	-0.26	-0.14	0.00	0.14	0.00	-0.14
1504934	-1.81	-1.89	-1.77	-1.38	-1.07	-1.58	-2.00	-1.81	-1.63	-1.89	-2.61	-2.35	-2.04	-2.46	-1.77
2512879	-1.68	-1.32	-1.14	-0.93	-0.93	-1.38	-1.00	-1.00	-1.20	0.00	0.14	-0.58	-0.38	0.00	0.14
1359832	-1.81	-1.32	-0.85	-1.54	-2.17	-1.81	-1.20	-1.14	-1.43	-0.26	-0.77	-1.32	-0.38	-0.38	-0.26
1583076	-1.58	-1.26	-0.77	-1.26	-1.72	-1.43	-1.26	-1.20	-1.43	0.49	0.26	-0.26	-0.14	0.14	-0.38
139838	-2.14	-2.32	-2.68	-2.43	-2.20	-2.87	-3.15	-3.36	-2.61	-2.14	-2.68	-3.17	-2.23	-2.74	-2.26
1344654	-1.54	-1.38	-0.68	-1.00	-0.85	-1.00	-1.00	-1.32	-1.20	-1.32	-1.32	-1.00	-1.43	-1.14	-0.26
2513979	-3.35	-3.52	-2.32	-2.38	-1.81	-2.63	-3.04	-2.77	-2.66	-2.38	-3.41	-3.41	-3.42	-3.19	-2.49
2369312	-3.05	-3.23	-3.20	-2.72	-1.89	-2.38	-2.87	-2.68	-1.20	-3.23	-2.63	-3.96	-3.56	-3.39	-0.58
2048364	-3.12	-3.17	-3.42	-2.61	-2.26	-2.66	-4.00	-3.71	-3.61	-3.09	-3.72	-3.57	-2.23	-3.32	-2.54
85246	-4.17	-4.22	-4.89	-4.26	-3.35	-3.95	-4.65	-4.50	-4.18	-3.61	-4.53	-4.99	-4.37	-4.80	-3.79
166337	-1.32	-1.68	-2.20	-1.00	-0.85	-1.20	-0.93	-1.20	-1.20	-0.85	-1.32	-1.72	-1.00	-1.58	-0.26
138274	-0.38	-0.58	-1.00	-0.26	-0.26	-0.38	-0.85	-0.68	-0.85	-0.77	-0.77	-0.93	-0.58	-0.85	-0.58
1633340	-1.20	-1.58	-0.58	-1.32	-1.43	-1.68	-1.68	-1.85	-1.77	-1.00	-1.58	0.49	0.58	0.49	-1.68
1982416	0.00	-0.68	-0.26	-1.07	-1.20	-1.38	-1.38	-1.96	-1.72	-0.49	-0.85	-0.68	-1.07	-0.68	-0.68
946822	-0.26	0.14	0.14	-0.14	-0.14	0.00	0.00	-0.49	0.26	-0.26	-0.58	-0.26	-0.14	0.00	-0.49
2517330	0.00	-0.26	0.14	-0.26	-0.85	-0.49	-0.68	-0.85	-0.85	-0.14	-0.38	0.26	0.14	0.14	-0.14
2516489	-0.14	-1.14	-1.20	-0.93	-0.58	-0.93	-1.20	-1.00	-1.20	-1.00	-1.20	-0.93	-0.85	-1.26	-0.49
88741	-1.26	-1.32	-1.14	-1.14	-1.26	-1.14	-1.81	-1.63	-1.32	-1.63	-2.17	-2.00	-1.49	-2.04	-1.20
168865	-1.43	-1.68	-1.68	-2.04	-1.77	-2.26	-2.63	-2.35	-2.54	-0.85	-0.77	-0.93	-1.32	-0.85	-1.49
231779	-0.93	-0.85	-1.00	-1.26	-0.77	-1.20	-0.68	-1.00	-0.77	-0.26	-0.49	0.38	0.00	0.14	-1.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
234123	0.14	-0.26	0.26	-0.93	-1.07	-1.07	-1.32	-1.26	-1.07	-0.49	-0.93	0.26	0.26	0.26	-0.85
1833801	0.58	-0.26	0.14	0.68	0.68	0.49	-0.14	-0.26	x	-0.14	0.68	0.77	0.93	1.07	0.00
1923613	0.14	-0.14	-0.38	0.26	0.26	0.00	-0.93	-1.07	-0.26	-0.38	-0.49	-1.07	-1.00	-1.00	0.14
2058620	0.77	0.38	0.93	1.07	0.38	0.14	-0.68	-0.38	0.00	-0.49	-0.77	-0.49	-0.68	-0.14	-0.93
1930954	0.58	-0.14	0.49	0.68	0.49	0.38	0.00	-0.26	x	0.00	0.00	0.38	0.38	0.38	-0.58
1511658	-4.14	-4.22	-4.73	-4.17	-3.78	-4.20	-4.55	-4.81	-4.56	-3.94	-2.74	-4.96	-4.56	-4.85	-4.44
2590673	-0.77	-1.00	-0.68	-1.00	-1.07	-1.32	-1.49	-1.43	-1.32	-0.26	-1.00	-1.49	-1.14	-1.38	-0.93
1995380	-1.49	-1.54	-0.93	-1.58	-1.38	-1.43	-1.07	-1.68	0.26	-0.14	-0.26	-0.38	-0.49	0.26	0.93
167409	-3.54	-3.75	-4.34	-3.31	-3.42	-3.63	-3.83	-3.84	-3.36	-1.81	-2.46	-4.39	-3.17	-3.69	-3.61
1846226	-1.54	-1.14	-1.32	-1.43	-1.07	-1.58	0.26	0.38	0.77	0.00	-0.14	0.14	0.38	0.68	-0.49
2052185	-3.02	-3.09	-4.51	-2.81	-2.41	-2.89	-3.31	-3.19	-3.42	-3.49	-3.94	-3.57	-2.85	-3.55	-3.28
2517389	-1.32	-1.81	-0.85	-1.32	-1.54	-1.72	-1.85	-1.93	-1.85	-1.32	-1.32	-1.54	-1.89	-1.72	-1.58
911015	-1.00	-1.20	-1.43	-0.77	-0.49	-0.77	-0.85	-1.00	-0.77	-0.49	-0.38	-0.38	-0.14	-0.14	0.00
604856	-1.14	-0.26	-0.58	-1.07	-0.77	-1.54	-1.26	-1.68	-1.32	-1.00	-0.14	-1.68	-1.85	-1.20	-0.58
1448718	-2.49	-2.10	-2.89	-1.72	-0.77	-2.32	-2.14	-1.43	-1.68	-0.68	-2.66	-2.58	-1.58	-2.04	-1.72
2517268	-1.07	-1.49	-1.68	-1.26	-1.38	-1.54	-2.07	-1.89	-2.10	-1.43	-1.54	-1.93	-1.81	-1.96	-1.68
167134	-0.49	-1.00	-1.26	-1.49	-1.68	-1.81	-2.41	-2.20	-2.38	-0.93	-1.14	-1.68	-1.43	-1.89	-1.96
2843638	0.26	-0.38	0.14	-0.58	-0.26	-0.38	-0.14	-0.14	0.77	0.00	0.00	-0.14	-0.26	-0.26	0.49
1813269	-1.81	-1.43	-2.00	-2.58	-1.85	-1.93	-0.14	-0.49	-2.10	-1.54	-2.38	-1.43	-1.00	-0.49	0.49
1861971	-4.31	-4.39	-4.51	-4.11	-3.86	-3.91	-4.55	-4.07	-4.36	-3.88	-4.02	-5.78	-4.69	-5.18	-3.34
2005973	-0.14	-1.14	-1.43	-1.72	-1.38	-1.00	-1.77	-1.77	-1.93	-0.26	0.00	-0.77	-0.58	0.26	-1.38
2515729	-2.58	-2.79	-2.10	-2.20	-2.10	-2.54	-2.85	-2.89	-3.23	-2.66	-2.58	-2.43	-2.74	-2.07	-2.32
2132356	-0.77	-0.77	-1.49	-0.26	0.00	-0.38	-0.85	-0.68	x	-0.68	-1.07	-1.14	-0.77	-0.93	-0.58
1001726	-0.38	-0.38	-0.77	-0.68	-0.26	-0.68	-0.38	-0.58	x	-0.77	-0.49	-1.00	-1.00	-1.32	0.38
2631845	-2.77	-2.35	-1.96	-1.96	-0.38	-2.07	-2.10	-2.46	-2.46	-1.38	-1.58	-2.00	-2.46	0.14	-0.38
86390	-0.85	-0.58	-1.89	-0.93	-0.14	-0.85	-0.68	-1.07	-0.77	-0.68	-0.77	-1.38	-1.20	-1.07	-0.26
1287840	-0.26	-0.14	0.38	-0.26	-0.38	-0.38	-0.26	-0.14	0.14	0.26	-0.14	0.38	0.49	0.49	-0.26
2516905	0.26	-0.49	-0.77	-0.38	-0.68	-0.58	-0.93	-1.14	-1.32	-0.49	-0.26	-0.49	-0.93	-0.77	-0.58
606122	-1.20	-1.43	-0.77	-1.20	-1.32	-1.43	-1.49	-1.77	-1.58	-0.68	-1.38	-0.85	-1.26	-1.20	-1.14
3553733	-0.85	-0.68	-2.20	-0.26	-0.38	-0.58	-1.49	-1.32	-1.54	-1.20	-0.68	-1.20	-0.85	-1.26	-0.58

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1813381	0.14	-1.20	-2.20	-1.77	-1.38	-1.81	-2.23	-2.17	-1.81	-2.20	-2.49	-2.70	-2.29	-2.83	-2.43
1988108	-1.58	-0.85	-1.00	-1.07	-0.85	-1.00	0.77	1.20	1.96	-0.38	-0.49	-0.68	-0.49	-0.26	0.00
1644648	-1.81	-1.81	-1.93	-1.38	-0.58	-1.20	-1.68	-1.49	1.32	-0.26	0.00	1.32	0.58	1.49	-1.07
2516104	-2.61	-2.94	-2.56	-2.23	-2.04	-2.10	-2.79	-2.77	-2.43	-2.32	-3.28	0.14	2.00	0.85	-2.58
2516448	-1.38	-1.43	-0.38	-0.58	-0.77	-0.38	-1.26	-1.26	-1.32	-1.63	-1.77	0.49	1.54	0.77	-1.07
2514507	-3.82	-3.36	-1.93	-1.72	-1.43	-1.89	-2.14	-2.26	-2.20	-2.46	-3.07	-0.68	0.77	0.68	-2.17
1427470	-0.68	-1.20	-0.68	-0.77	-1.07	-1.20	-1.14	-1.49	0.58	0.14	0.38	1.49	1.20	1.58	0.00
1311471	-1.49	-2.23	-2.20	-1.81	-0.77	-1.07	-1.14	-1.07	-1.32	-1.20	-1.63	0.49	0.93	1.00	-1.14
195142	-2.32	-2.51	-3.54	-2.07	-1.96	-2.17	-3.10	-2.66	-2.77	-0.38	-0.14	0.49	0.14	0.68	-2.56
29598	-3.63	-3.43	-4.39	-3.32	-2.20	-3.25	-3.14	-3.41	-2.35	-0.85	-0.68	1.00	1.26	1.32	-2.43
1968576	-1.43	-1.49	-1.49	-0.93	-1.14	-1.38	-1.49	-1.68	-1.38	0.00	0.00	1.58	1.14	1.07	0.38
2959255	-2.35	-1.93	-0.93	-1.20	-1.20	-1.26	-0.14	-0.14	0.68	-0.77	-1.43	1.26	1.20	1.58	-0.77
446969	-2.26	-2.29	-3.20	-3.02	-2.74	-2.81	-3.23	-3.22	-3.35	-1.43	-1.20	0.14	0.77	0.77	-0.85
1631511	-2.14	-2.20	-3.25	-2.23	-2.04	-2.35	-2.85	-2.58	-2.26	-1.14	-2.23	1.63	1.63	1.85	-1.14
1508741	-2.14	-2.38	-2.68	-2.10	-1.72	-2.20	-2.98	-2.96	-2.17	-2.41	-2.83	-3.55	-2.10	-3.10	0.14
2513602	-1.14	-1.49	-1.85	-1.43	-1.26	-1.58	-1.63	-1.77	-2.00	-1.93	-1.63	-1.72	-2.23	-2.29	-1.81
1981145	-1.20	-1.77	-1.20	-1.85	-1.07	-1.68	-1.43	-1.32	-1.63	-1.58	-1.63	-0.26	0.00	0.14	-1.68
2103752	-1.26	-1.07	-0.68	-1.63	-1.32	-1.77	-1.32	-1.43	0.14	-0.26	-0.58	0.38	0.00	0.14	0.38
2658782	-2.10	-2.14	-2.26	-2.58	-1.81	-2.66	-3.20	-2.91	x	-1.93	-2.14	-0.14	-0.49	0.00	-2.00
2099420	-1.00	-1.32	-1.00	-1.32	-1.26	-1.58	-1.85	-2.07	-2.07	-1.43	-1.72	-0.93	-1.20	-1.43	-1.14
637639	-2.04	-1.96	-1.77	-2.14	-1.43	-1.81	-2.04	-2.10	-1.96	-1.89	-1.93	-2.85	-1.96	-2.72	-1.07
279249	-2.29	-2.46	-2.43	-2.70	-2.58	-2.89	-3.29	-3.09	-2.81	-2.46	-3.12	-3.25	-2.56	-3.61	-2.85
1379063	-1.77	-1.93	-3.19	-1.58	-0.85	-1.68	-1.58	-1.63	-1.38	-0.93	-0.77	-0.77	-0.14	-0.26	-0.58
89747	-2.26	-2.49	-3.25	-2.72	-2.07	-2.41	-2.93	-2.98	-3.04	-2.54	-2.94	-2.98	-2.29	-3.22	-2.49
2515873	-1.49	-1.43	-2.10	-1.07	-1.26	-1.89	-1.54	-1.38	-1.54	-1.93	-1.96	-2.17	-1.89	-2.04	-2.07
1432372	-1.07	-1.38	-2.14	-1.32	-1.00	-1.26	-1.81	-1.72	-1.58	0.58	0.26	0.38	0.58	0.85	0.38
1633719	-2.51	-3.07	-2.81	-2.72	-2.23	-2.61	-3.09	-3.47	-3.05	-2.81	-2.49	-0.26	-0.38	-0.49	-2.43
1712663	-0.93	-1.26	-1.38	-1.43	-1.00	-1.26	-1.14	-1.38	-1.07	-0.85	-0.49	-1.07	-1.00	-1.54	0.00
4285203	-0.93	-0.93	-2.07	0.58	1.20	0.58	-0.77	-0.68	-1.54	-1.38	-1.07	-0.68	-0.58	-0.68	-0.77
1634342	-0.93	-0.77	-1.32	-1.20	-0.77	-1.58	-0.93	-0.58	-0.38	0.26	-0.38	0.26	0.93	0.77	0.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1418871	-0.77	-1.07	-0.58	-0.58	-0.38	-0.77	-0.93	-1.07	-1.26	-1.14	-0.93	-1.26	-1.07	-1.14	-0.38
3766382	-1.54	-1.07	-1.49	-1.43	-0.85	-1.43	-0.14	-0.26	-1.14	-0.38	-0.58	-0.38	-0.77	-0.58	-1.00
943181	-0.58	-0.85	-1.07	-0.77	-0.77	-0.77	-1.20	-1.20	-1.20	-1.07	-1.07	-1.26	-1.07	-1.32	-0.85
603761	-1.54	-1.54	-2.63	-1.49	-0.58	-1.68	-1.81	-1.93	x	-1.07	-1.68	-2.04	-1.81	-1.96	-1.32
1297562	0.14	0.00	0.49	-1.58	-0.58	-1.07	-0.14	0.93	-0.77	-1.38	-1.89	-1.96	-1.32	-1.81	0.93
2910715	-0.93	-1.43	-0.85	-1.00	-1.00	-1.14	-1.49	-1.26	-1.85	-0.26	0.58	-1.38	-1.26	-1.49	0.38
196975	0.49	0.38	0.00	-0.14	0.14	-0.26	-0.49	-0.26	x	0.00	0.00	-0.14	-0.14	0.00	-0.14
1453049	0.00	-0.68	-1.77	-0.68	-0.38	-1.07	-1.14	-1.00	x	0.93	1.07	0.14	0.38	0.38	0.85
1968695	-0.49	-1.00	-0.58	-0.93	-0.49	-0.49	0.00	-0.26	-0.38	-0.26	-0.49	1.14	1.00	1.58	0.00
958344	-3.12	-2.98	-2.35	-3.28	-2.74	-3.26	-3.86	-3.68	-3.68	-3.14	-3.29	-3.63	-3.67	-3.68	-3.42
2820985	-1.68	-1.72	-2.70	-1.85	-1.00	-2.07	-2.10	-2.14	-1.49	-0.68	-2.20	1.00	1.72	1.49	-1.93
1633393	-0.58	-1.00	-0.49	-1.63	-1.07	-1.54	-1.07	-1.14	-0.49	-0.77	-0.77	1.20	1.14	1.38	-0.77
1806451	-1.00	-1.26	-1.26	-0.49	-0.58	-0.77	-0.58	0.00	-1.14	-0.77	-0.85	1.54	1.00	1.72	-1.38
2674772	-2.61	-2.66	-3.34	-2.66	-1.77	-2.46	-2.74	-2.79	-2.68	-2.29	-2.14	0.93	0.85	1.14	-2.35
1376121	-1.32	-1.07	-1.14	-1.43	-1.00	-1.26	-1.68	-1.38	-1.26	-0.26	-0.38	-1.38	-0.93	-1.20	1.20
831794	-0.38	-0.58	-0.85	0.26	0.00	0.00	-1.54	-1.32	-1.58	-1.00	-1.32	-1.81	-1.63	-1.77	-1.00
1427681	-1.81	-1.89	-2.38	-1.85	-0.49	-1.58	-2.04	-1.68	-1.38	-2.00	-2.10	-2.56	-1.96	-2.07	-1.38
2912830	-2.74	-2.74	-2.89	-3.05	-1.77	-2.83	-3.50	-3.51	-2.23	-2.14	-2.77	-3.57	-2.77	-3.23	-2.83
504786	-1.81	-1.54	-2.14	-2.17	-1.32	-2.04	-2.38	-2.07	-2.38	-1.14	0.00	-2.43	-2.10	-2.04	-1.93
254081	-4.79	-4.94	-4.26	-4.38	-4.55	-4.51	-5.28	-5.28	-4.89	-4.94	-5.26	-5.93	-5.60	-6.02	-4.73
1330674	-3.60	-3.75	-4.04	-4.61	-3.77	-3.58	-4.28	-4.34	-4.68	-4.32	-4.25	-5.29	-4.38	-4.87	-3.52
2377834	-5.75	-5.97	-5.94	-4.49	-4.96	-5.05	-5.74	-5.57	-5.88	-6.13	-6.05	-6.26	-6.14	-6.31	-5.19
2075464	-4.33	-4.61	-3.75	-3.87	-3.31	-3.77	-4.12	-3.96	-4.41	-3.09	-2.41	-4.27	-4.13	-4.38	-3.88
2383235	-4.67	-4.87	-5.39	-4.49	-3.78	-3.68	-4.18	-4.34	-4.97	-4.93	-4.93	-5.76	-5.41	-5.76	-3.89
1285503	-1.43	-1.96	-2.63	-1.49	-0.85	-1.58	-2.07	-2.07	-1.89	-0.85	-1.81	-0.49	-0.26	-0.14	-0.58
2383205	-4.72	-4.93	-5.25	-4.34	-3.87	-4.28	-4.78	-4.69	-4.66	-4.78	-5.03	-5.41	-4.96	-5.29	-4.29
2015871	-5.04	-4.90	-2.89	-3.85	-3.09	-3.98	-4.15	-4.12	-4.36	-4.66	-4.98	-4.65	-5.10	-4.88	-4.22
2374046	-0.77	-0.93	0.49	-0.93	-1.26	-1.20	-1.32	-1.58	-1.49	-0.93	-1.20	-0.58	-0.93	-1.00	-0.58
1709828	-0.68	-0.58	-0.85	-1.07	-0.49	-0.85	-0.58	-0.58	0.85	0.58	0.49	0.38	0.68	0.49	0.49
2061119	0.49	0.26	0.49	1.07	1.26	0.93	1.32	1.32	1.54	0.49	-0.14	0.49	-0.14	0.58	-0.68

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
3665105	-2.41	-2.56	-4.06	-2.98	-2.87	-3.32	-3.45	-3.63	-3.75	-3.00	-3.25	-2.61	-2.66	-2.87	-3.00
2068983	-3.15	-3.34	-4.01	-3.38	-2.94	-3.09	-3.23	-3.36	-3.14	-2.70	-2.89	-3.14	-1.63	-2.17	-2.85
2242648	-3.02	-2.85	-2.43	-3.05	-2.77	-2.35	-3.05	-2.79	-3.02	-3.31	-3.19	-3.41	-3.00	-3.02	-2.72
885032	-2.00	-2.14	-1.26	-2.51	-1.85	-2.49	-2.58	-2.56	-2.85	-1.96	-1.77	-2.56	-2.04	-2.07	-2.54
2383830	-5.43	-5.44	-5.52	-4.50	-1.85	-4.12	-4.47	-4.74	-4.47	-4.29	-5.38	-5.48	-4.98	-5.38	-3.79
2085191	-6.27	-6.31	-5.57	-6.41	-5.71	-5.49	-6.36	-6.35	-6.11	-5.93	-6.41	-5.34	-5.04	-4.61	-5.96
2792982	-6.01	-5.87	-3.51	-5.27	-4.52	-4.69	-5.09	-5.16	-5.05	-4.81	-5.17	-3.92	-3.79	-3.29	-5.18
179929	1.38	2.20	1.20	-1.58	-1.89	-2.00	-1.93	-1.32	-1.89	0.68	0.93	0.77	1.26	1.43	-1.20
2741788	-1.58	-1.26	-1.07	-1.93	-1.58	-1.85	-0.26	0.00	0.93	-0.14	0.00	0.26	0.00	0.85	-1.81
2373608	-3.91	-4.35	-2.74	-2.83	-2.72	-3.43	-3.22	-3.09	-3.99	-0.77	-0.26	-2.29	-2.38	-2.14	-2.89
2182095	-3.43	-3.74	-2.61	-3.12	-2.61	-3.25	-3.45	-3.23	-4.02	0.38	-1.26	1.14	1.58	2.56	-3.35
2923150	-6.10	-6.51	-5.69	-5.68	-4.84	-5.13	-5.71	-5.82	-5.80	-1.81	-2.14	-2.46	-0.68	-0.68	-5.13
293495	-0.14	-1.32	-1.77	-2.49	-1.93	-2.41	-2.43	-3.05	-1.00	-1.00	-0.58	-2.04	-2.56	-2.17	-1.32
4284270	-1.20	-1.54	-2.23	-1.07	-0.85	-1.26	-1.49	-1.49	-1.77	-1.68	-1.77	-1.72	-1.54	-1.81	-0.85
958923	-0.77	-0.77	-1.00	-1.07	-0.77	-1.07	-0.58	-0.77	-0.58	-0.68	-0.68	-0.68	-1.07	-0.77	-0.26
1921393	-2.66	-2.72	-2.74	-2.87	-1.85	-2.87	-1.14	-1.20	-2.51	1.38	2.07	-2.00	-1.58	-1.54	-2.14
1447866	-0.38	-0.49	-0.38	-0.38	-0.38	0.00	0.00	-0.14	-0.38	0.49	0.77	0.14	0.49	0.38	0.68
1666737	-0.68	-1.00	-1.68	-0.68	-0.26	-0.49	-0.14	-0.38	-0.93	0.14	0.49	0.14	0.49	0.49	1.07
586245	-1.14	0.00	-1.32	-0.85	-0.58	-0.68	1.38	1.20	-0.68	-0.68	-0.49	-0.58	-0.49	0.00	-1.07
194162	-1.38	-1.38	-3.02	-1.72	-0.38	-1.26	-1.93	-1.72	-1.81	2.46	2.38	-0.77	0.93	2.20	-0.77
243123	-1.32	-1.20	-2.54	-1.63	-1.32	-1.32	-1.77	-1.63	-1.93	-1.26	-0.68	-1.49	-1.26	-1.32	-2.07
382416	-1.49	-0.68	-0.93	-0.93	-0.93	-0.93	-0.77	-0.77	-0.77	-1.54	-2.66	-3.04	-1.89	-2.26	-1.07
1852659	-1.58	-1.93	-0.58	-1.77	-1.77	-2.20	-1.96	-1.85	-2.17	-2.00	-2.29	-1.58	-1.68	-1.96	-1.72
3220181	-0.38	-0.93	-0.85	-0.68	-0.85	-1.00	-0.77	-0.38	-0.14	-0.14	-0.68	1.14	1.32	1.20	-1.00
1726307	-0.93	-1.14	-1.07	0.26	0.49	0.14	0.00	-0.38	0.14	-0.58	-0.14	-1.20	-0.77	-0.85	-0.77
1904244	0.00	-0.14	-0.49	0.14	0.26	0.00	-0.14	-0.49	0.26	-0.58	-0.49	-0.38	0.14	-0.49	-0.14
2039955	-1.00	-1.07	-1.68	-0.93	-0.49	-0.68	-1.20	-1.00	-1.26	-1.32	-1.00	-1.63	-0.77	-1.38	-0.85
2675641	-1.14	-0.68	-1.00	-1.77	-0.93	-1.43	-0.14	-0.38	-0.38	-0.26	-0.68	-0.77	-0.85	-0.93	-1.38
1412749	-0.14	-0.85	-0.14	-0.85	-0.93	-1.00	-1.14	-1.32	-1.54	-0.49	-0.38	-0.14	-0.58	-0.58	-0.93
1963854	-0.49	-0.58	-1.26	-1.00	-0.85	-1.26	0.00	0.14	-0.26	0.26	-0.14	0.68	0.49	1.07	-0.93

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2949085	0.14	0.00	-0.38	-0.49	-0.77	-0.85	0.26	0.26	0.00	-0.49	-0.38	-0.93	-0.49	-0.77	-0.68
2963196	-0.68	-1.00	-2.00	-1.00	-1.00	-1.32	-1.58	-1.77	-1.89	-1.07	-1.49	-1.38	-1.49	-1.68	-2.14
1505977	-1.26	-1.00	-2.20	-1.77	-1.58	-1.68	-1.20	-0.68	-1.77	-1.20	-1.89	-2.49	-1.49	-2.38	-1.68
1674985	0.38	-0.14	0.26	-0.58	-0.68	-0.77	-0.58	-0.49	-0.38	-0.77	-1.00	-0.49	-0.49	-0.77	-0.77
2109054	0.58	0.68	-0.38	1.26	1.58	0.85	0.14	0.14	0.14	-0.58	-0.85	-1.43	-0.93	-1.43	-0.85
3317039	-0.49	-0.49	-1.43	-0.26	-0.26	-0.38	-0.38	-0.26	-0.14	-0.26	-0.38	-0.85	-0.58	-0.93	-0.77
2838551	-0.38	-0.68	-0.49	-0.68	-0.58	-0.68	-0.26	-0.58	-0.68	-0.58	-0.77	-0.49	-0.93	-0.77	-0.58
1477568	-0.26	-0.14	-0.49	-1.00	-0.58	-1.38	-1.00	-1.32	-1.77	-1.00	-1.14	-2.00	-1.81	-1.00	-1.77
2963871	-0.77	-0.49	-0.38	-0.68	-0.38	-0.77	0.49	0.68	0.00	-0.26	-0.26	-0.58	0.14	0.00	0.00
1740547	-1.07	-0.85	-1.00	-1.32	-1.07	-1.07	-1.00	-1.20	-1.26	-0.85	-0.93	-1.00	-0.77	-0.85	-1.00
2292011	-1.14	-1.32	-1.96	-1.96	-1.43	-2.04	-1.85	-1.49	-2.32	-1.38	-2.04	-2.54	-1.77	-2.46	-1.43
1349484	-0.14	0.00	-0.77	0.14	0.49	0.00	0.26	0.14	x	-0.58	-0.26	-0.49	-0.38	-0.26	0.00
1674253	-0.77	-0.68	-1.07	-0.68	-0.49	-0.68	-1.20	-1.07	-0.85	-0.85	-0.93	-0.85	-0.68	-0.77	0.38
1932189	-1.43	-1.81	-1.77	-2.20	-2.04	-2.46	-2.77	-2.68	-2.91	-1.72	-2.04	-2.10	-2.00	-2.00	-2.74
1403041	0.77	-0.26	-1.20	0.00	0.26	-0.68	0.14	-0.26	-0.93	-0.68	-0.85	-1.14	-0.85	-1.00	-0.38
1486358	-1.00	-1.00	-1.38	-1.77	-1.72	-2.23	-1.63	-1.20	-1.07	-1.32	-1.58	-1.89	-1.58	-1.43	-1.72
1439065	0.38	0.00	0.14	-0.38	-0.49	-0.14	-0.58	-0.49	x	-0.14	-0.38	-0.26	0.14	-0.26	0.00
530629	-0.26	-0.38	-1.72	-0.26	0.00	-0.38	-0.58	-0.93	x	-0.68	-1.00	-0.93	-0.14	-0.58	-0.14
1672676	-1.20	-1.07	-1.54	-1.81	-1.63	-1.58	-0.93	-0.85	-1.00	-1.32	-1.81	-1.89	-1.32	-1.68	-1.81
1989129	-1.00	-0.49	-1.43	-1.07	-0.85	-1.14	-0.38	-0.26	-0.58	-0.58	-0.38	-0.77	-0.58	-0.49	-0.68
1486348	-2.58	-2.17	-2.77	-1.00	-0.85	-1.58	-1.14	-1.00	-1.07	-1.68	-1.96	-1.81	-1.81	-1.81	-1.20
1397294	-0.58	-1.00	-1.63	-0.85	-0.26	-0.49	-1.00	-0.68	-1.43	-0.68	-0.49	-1.49	-1.07	-0.68	-0.26
2844322	-1.26	-0.68	-1.26	-1.32	-1.38	-1.49	-0.68	-0.77	-1.20	-1.26	-1.81	-1.85	-1.49	-1.85	-1.00
1481440	-0.93	-0.85	-2.10	-0.38	-0.26	-0.58	-1.07	-0.77	0.00	-1.07	-1.32	-1.20	-0.93	-1.20	-0.58
26459	0.14	-0.58	-0.14	-1.14	-1.43	-1.49	-1.68	-1.58	-1.63	-1.00	-1.20	-1.43	-1.49	-1.49	-1.00
1406786	-1.32	-1.00	-0.77	0.14	-0.26	-0.14	-0.14	-0.49	-0.38	-0.68	-0.58	-1.14	-0.93	-1.07	-0.58
1485846	-4.60	-4.04	-4.43	-4.69	-4.13	-4.34	-3.92	-4.04	-4.36	-4.25	-4.69	-4.26	-3.79	-4.02	-4.72
2153242	-1.68	-1.96	-1.93	-1.72	-1.26	-1.72	-1.85	-1.93	-2.10	-1.49	-1.54	-0.93	-1.20	-1.00	-1.26
2157981	-0.77	-1.85	-1.85	-2.00	-1.20	-1.81	-2.10	-1.07	-1.38	-1.49	-1.20	-2.07	-1.63	-1.93	-1.68
3244361	-1.00	-0.49	-1.26	-0.49	-0.38	-0.58	-0.68	-0.68	-1.00	-0.77	-0.85	-1.20	-0.85	-0.93	-1.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1986737	-1.32	-0.49	-1.07	0.68	0.26	-0.14	-1.26	-0.77	-1.96	-1.63	-2.10	-1.54	-1.54	-1.20	-1.63
2506867	-2.38	-1.49	-3.04	-1.49	-1.00	-2.04	-2.07	-0.77	-0.49	-2.41	-2.61	-2.04	-1.58	-1.81	-2.07
1211682	1.38	0.85	0.68	-1.96	-1.54	-2.04	-1.81	-1.85	-1.14	-1.26	-1.43	-0.49	-0.38	-0.49	-2.10
1416354	2.10	0.49	1.32	-1.43	-0.93	-1.58	-1.00	-0.85	-1.43	-1.54	-1.63	-1.20	-1.00	-1.14	-1.38
2963962	1.20	0.77	0.68	-1.07	-0.38	-1.20	0.68	1.49	-0.38	-0.58	-0.93	-0.93	-0.85	-0.68	-1.43
1761086	0.14	0.14	-0.49	0.49	0.00	0.14	-1.93	-2.00	-2.26	-0.14	-0.26	0.68	0.93	0.93	-1.54
2588552	-0.77	-0.77	-2.29	1.00	0.26	0.38	-1.89	-1.89	-1.77	-0.49	-0.85	-1.85	-1.00	-1.77	1.20
1901271	-1.38	-1.00	-1.89	-2.63	-2.17	-2.07	-1.43	-1.43	-0.68	-0.93	-0.77	0.14	0.77	0.68	-0.68
1740924	-0.14	-0.58	-0.49	-0.68	-0.85	-0.85	-1.14	-1.26	-1.00	-0.58	-0.58	-0.68	-0.77	-1.20	-0.68
1480159	-1.68	-1.58	-2.04	-1.00	-0.93	-1.00	-1.93	-1.54	-1.77	-1.77	-1.63	-1.77	-1.20	-1.32	-1.38

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2380381	-0.93	-0.77	0.68	1.07	0.58	1.00	0.49	0.77	-1.00	-1.00	-1.26	-0.49	-0.77	-0.93	-1.07
1618422	-0.14	0.00	-1.38	-1.63	-1.14	-1.49	-1.38	-1.43	-0.49	-0.14	-0.14	-0.49	0.26	0.77	-0.49
2672064	0.14	0.26	-1.38	-1.32	-1.89	0.00	0.00	0.38	-1.77	-0.49	-1.32	0.00	0.58	0.14	0.14
608361	0.14	0.00	-0.38	-0.68	-0.14	-1.00	-0.77	-1.14	0.93	0.14	0.00	-0.26	-0.85	-1.14	-0.68
1922596	-1.93	-1.77	1.26	1.81	0.49	0.85	0.26	0.49	-1.58	-1.63	-2.10	-1.38	1.32	0.58	-0.14
1850033	-2.79	-2.38	-3.05	-2.66	-2.14	-2.51	-2.32	-2.77	-2.14	-2.26	-2.20	-2.23	-2.14	-2.83	-2.23
986987	-2.91	-2.51	-2.93	-2.85	-2.70	-2.91	-2.93	-3.07	-2.77	-3.00	-2.35	-2.38	-3.15	-3.38	-2.72
718807	-1.58	-1.54	-1.32	-2.07	-1.58	-2.49	-1.93	-2.10	-0.58	-1.81	-1.38	-1.77	0.49	0.26	0.38
2880435	-0.49	-0.58	-0.68	-0.77	-0.49	-0.14	-0.26	0.00	-0.58	-0.68	0.00	-0.14	-0.38	0.26	0.26
187326	-2.85	-2.91	-2.43	-2.66	-2.72	-3.00	-3.75	-2.83	-2.32	-2.56	-2.89	-2.49	-3.22	-3.25	-2.20
1997963	-1.68	-1.63	-2.32	-1.58	-2.04	0.00	-0.77	-0.49	-1.68	-2.58	-2.63	-1.89	-0.26	-1.00	-1.14
467700	-2.07	-2.54	-2.43	-2.38	-2.14	-2.41	-2.35	-2.41	-1.96	-2.29	-2.07	-1.81	-3.17	-2.61	-1.89
57382	-3.57	-3.51	-3.51	-3.45	-3.20	-1.63	-2.43	-2.20	-3.19	-3.66	-3.12	-3.29	-1.43	-2.14	-1.85
1222442	-2.04	-1.77	-0.68	0.26	0.49	0.93	0.38	0.68	-1.26	-1.32	-1.58	-1.00	0.14	-0.58	-0.77
4013105	-3.05	-2.81	-3.25	-3.15	-2.85	-0.26	-1.20	-0.85	-2.83	-1.38	-2.68	-0.93	-0.58	-1.32	-1.81
924319	-0.68	-2.51	-4.03	-4.03	-3.39	-4.17	-4.19	-4.38	-3.68	-3.96	-3.69	-3.68	-4.45	-4.63	-4.08
1645119	-1.38	-1.38	-0.77	-0.68	-0.68	-0.85	-0.77	-1.00	-1.00	-1.26	-1.07	-0.85	-0.38	-1.20	-0.93
1379925	-2.29	-2.17	-1.93	-1.81	-1.72	-1.58	-1.58	-1.96	-2.10	-0.93	-1.68	-1.54	-1.54	-2.14	-1.43
1900961	-2.46	-2.56	-2.29	-2.00	-1.93	-1.85	-1.96	-1.81	-1.96	-2.70	-1.89	-1.89	-1.85	-2.29	-2.58
3506985	-0.68	-0.58	-1.93	-1.63	-2.54	-2.54	-2.77	-2.43	-2.43	0.85	0.14	2.77	-3.12	-3.45	-2.49
551403	-1.58	-1.58	-1.43	-2.23	-1.26	-1.20	-1.77	-1.81	-0.26	-2.00	-1.43	-1.81	1.38	1.00	0.68
3948420	-1.49	-1.93	-2.81	-2.94	-2.74	-1.54	-2.17	-2.23	-0.49	-2.87	-2.23	-2.61	1.38	1.26	0.85
1722853	-0.38	-0.26	-1.20	-0.26	-1.14	-0.38	-0.38	-0.14	-1.26	-1.58	-1.32	-1.49	-0.38	-0.26	-0.26
1557490	-1.85	-1.77	-2.85	-2.23	-2.81	-1.07	-1.32	-1.00	-1.93	-0.58	-1.68	-0.58	1.58	1.20	0.38
3208425	-1.32	-1.32	-2.23	-2.14	-1.89	-0.26	-0.77	-0.14	-1.77	-1.93	-2.46	-1.20	0.68	0.38	-0.49
1668474	-1.89	-1.58	-1.68	-1.68	-1.58	-2.14	-1.72	-1.77	-1.20	-1.54	-1.14	-1.20	-0.68	-1.26	-0.93
1622542	-0.85	-1.14	-0.85	-1.32	-1.20	-1.07	-0.58	-1.32	-0.77	-0.38	0.14	-0.49	1.00	1.07	0.49
4014318	-0.85	-0.68	-0.85	-0.49	-0.26	-0.68	-0.93	-0.68	-0.26	0.00	-0.58	0.14	-1.20	-1.49	-0.49
2394888	-0.77	-0.38	-0.14	0.14	-1.20	0.77	-0.38	-0.26	-1.81	-1.07	-1.07	-1.43	0.68	0.68	1.07
1345550	-3.17	-4.25	-3.83	-4.33	-4.10	-4.68	-4.63	-4.57	-4.39	-4.19	-4.04	-3.35	-4.71	-4.69	-3.69

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1719955	-1.54	-1.49	-1.77	-1.54	-0.77	-1.14	-1.32	-0.85	-3.10	-2.83	-3.12	-2.29	-0.49	-1.14	-1.26
2256026	-1.14	-1.20	-0.85	-1.14	-0.14	-1.38	-1.20	-0.85	-0.26	-0.68	-0.93	-0.38	-1.20	-1.20	-0.68
1538086	-1.32	-1.43	1.26	1.14	1.20	-0.14	0.14	-0.26	0.00	-1.20	-1.00	-1.00	0.00	-0.14	-0.68
958633	-0.38	-0.26	-0.77	-0.38	-0.58	0.14	0.14	0.49	0.49	-0.77	-0.58	-0.38	0.49	-0.26	-0.14
2635943	-3.87	-3.41	-3.60	-3.23	-3.20	-3.74	-3.86	-3.28	-3.74	-3.52	-3.31	-3.26	-2.93	-3.39	-2.66
121888	-4.15	-4.26	-3.83	-3.81	-3.15	-4.05	-4.01	-3.94	-3.78	-3.54	-3.93	-4.04	-3.31	-4.38	-3.91
1627492	-0.77	-0.68	-0.93	-1.07	-1.20	-0.26	-0.58	0.00	-1.00	-1.07	-1.26	-0.38	0.26	-0.26	-0.26
4073867	-1.00	-1.07	1.26	1.49	1.93	1.32	0.49	0.58	-0.49	-0.58	-0.93	-0.14	-0.77	-1.07	-0.38
2190170	-0.38	0.00	-1.14	-0.68	-0.58	0.14	-0.26	0.00	-0.77	-0.38	-0.58	0.38	0.38	0.00	0.38
972224	-4.20	-4.10	-4.26	-4.05	-3.93	-3.80	-4.39	-4.26	-4.39	-3.87	-4.34	-3.85	-4.71	-5.00	-3.80
1413644	-2.35	-1.89	-2.17	-2.04	-2.46	-1.49	-2.17	-1.43	-2.10	-2.20	-1.63	-1.58	1.43	0.68	-0.58
1538224	0.26	-0.14	0.00	-0.26	0.14	-0.14	-0.38	0.38	-0.58	-0.93	-0.58	-0.38	-0.38	-0.49	-0.26
2623268	-1.32	-0.85	-2.29	-1.93	-1.81	-0.58	-1.20	-0.38	-2.14	-1.26	-1.49	-0.93	0.49	-0.26	-0.38
1665533	0.00	0.14	-1.07	-0.49	-1.00	0.00	-0.26	0.26	-0.49	-0.26	-0.49	0.26	-0.38	-0.77	-0.14
981484	-1.26	-1.07	-1.26	-1.26	-0.68	-1.14	-1.00	-1.32	-0.77	-0.85	-0.77	-1.20	-0.77	-0.85	-0.38
973629	-3.31	-3.32	-3.70	-3.35	-3.35	-3.25	-3.49	-3.26	-3.32	-2.66	-3.42	-2.51	-3.20	-4.17	-2.85
1539638	-0.38	-0.38	-1.77	-1.49	-1.54	-0.14	-0.58	-0.26	-1.58	-1.00	-1.26	-0.58	-0.14	-0.58	-0.58
3015758	-3.22	-3.25	-2.83	-2.85	-2.51	-3.22	-3.12	-3.47	-1.77	-2.72	-2.68	-2.10	-3.20	-3.55	-2.35
2832314	-0.14	0.14	-2.70	-2.96	-2.91	0.85	0.49	1.00	-2.14	-0.58	-1.00	-0.26	1.43	0.93	0.58
1702996	-0.77	-0.58	-1.58	-1.26	-1.43	-0.58	-1.20	-0.58	-0.93	-1.32	-1.72	-0.58	-0.38	-0.77	-0.49
839947	-0.58	-0.49	-0.49	-0.85	-0.58	-1.00	-0.58	-0.93	-0.77	-0.49	-0.58	-0.68	0.14	0.00	0.14
1867522	-4.10	-4.34	-3.61	-3.78	-3.91	-4.43	-4.30	-4.25	-4.59	-3.86	-4.21	-4.21	-3.80	-4.64	-3.64
1987831	-0.68	-0.58	-1.14	-1.49	-1.00	-1.20	-0.77	-0.93	x	-0.58	-0.38	-0.49	1.54	1.32	0.26
2639708	-3.31	-3.17	-3.32	-2.98	-3.04	-3.32	-3.12	-3.34	-2.72	-2.94	-2.70	-2.63	-2.70	-3.52	-2.72
973815	-3.93	-3.90	-4.11	-4.15	-3.56	-4.03	-3.75	-4.36	-3.51	-2.81	-3.96	-3.47	-3.42	-4.02	-2.79
169884	-2.14	-2.43	-1.63	-1.72	-1.54	-2.43	-2.41	-2.56	x	-1.77	-1.54	-1.54	-1.32	-1.43	-0.85
2638235	-0.68	-0.58	-1.20	-1.26	-0.93	-0.93	-0.77	-1.07	-0.93	-1.72	-1.20	-1.14	-1.20	-1.49	-1.68
305198	-2.14	-2.26	-2.00	-2.07	-1.77	-2.14	-2.41	-2.35	-1.72	-1.43	-2.14	-1.96	-2.07	-1.89	-1.07
57997	-1.96	-2.04	-1.58	-1.77	-1.26	-1.58	-1.77	-1.49	-0.93	-1.68	-1.38	-1.32	-2.10	-2.04	-1.07
986558	-2.35	-2.38	-2.32	-2.38	-2.00	-1.26	-1.85	-1.89	-2.04	-1.81	-2.29	-2.07	-1.20	-1.72	-1.07

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
224996	-1.43	-1.77	-3.10	-3.15	-3.58	-3.35	-3.17	-3.04	-3.25	-2.58	-2.98	-2.41	-1.81	-2.32	-2.14
661259	-1.68	-1.32	0.93	1.32	1.07	0.68	0.00	0.49	-1.89	-1.58	-2.23	-1.07	0.49	-0.26	-0.68
3246379	-1.81	-1.49	-1.96	-1.54	-1.81	-1.49	-1.93	-1.68	-1.81	-1.38	-1.63	-1.26	0.26	0.14	-0.38
78783	0.00	0.00	-1.77	-1.77	-2.46	-0.49	-0.93	-0.14	-1.85	0.00	-1.81	0.14	-1.93	-2.26	-2.14
2639181	-5.27	-5.41	-5.12	-5.06	-5.04	-5.36	-5.79	-5.54	-4.95	-5.07	-4.82	-4.24	-5.57	-5.87	-5.19
1672467	-2.93	-3.09	-0.38	-2.10	-1.72	-2.41	-2.96	-2.94	-1.72	-2.61	-2.63	-2.51	-2.63	-2.83	-2.04
2950063	-3.94	-3.72	-3.87	-3.60	-2.29	-4.39	-4.30	-4.06	-3.41	-3.79	-3.57	-3.57	-4.15	-4.45	-3.38
3288518	-5.54	-5.37	-5.36	-5.26	-5.09	-5.02	-5.06	-4.98	-5.36	-4.78	-4.97	-4.64	-5.71	-5.88	-5.46
184110	-4.13	-3.94	-4.13	-3.61	-4.76	-5.22	-5.50	-4.84	-4.69	-3.75	-4.60	-4.15	-5.61	-5.95	-3.92
1368173	-2.26	-1.77	-3.02	-2.56	-2.43	-0.49	-0.93	-0.85	-2.41	-1.93	-2.23	-2.07	0.00	-0.38	-0.58
1813409	-1.85	-1.43	-1.14	-0.14	-1.72	1.20	0.26	0.68	-0.26	-1.72	-2.17	-1.14	-1.20	-1.49	-1.07
58309	-3.56	-3.38	-3.56	-3.15	-2.46	-2.94	-2.68	-3.51	-3.42	-3.19	-3.83	-3.34	-3.81	-3.68	-3.02
1721744	-0.85	-0.49	-0.58	-0.38	-0.93	-0.93	-1.26	-0.58	0.38	-1.54	-1.58	-0.77	0.26	0.14	0.00
1924344	-1.81	-2.29	-2.10	-2.14	-2.14	-2.61	-3.00	-2.66	-2.38	-1.63	-1.93	-0.85	-2.74	-2.66	-1.68
3176845	-2.66	-2.61	-4.17	-3.88	-3.77	-3.04	-3.39	-2.61	-3.81	-2.87	-3.25	-2.72	-3.58	-3.78	-2.72
2286809	-3.12	-3.07	-0.14	0.26	0.85	1.49	0.58	1.54	-1.85	-2.49	-2.77	-2.38	-0.14	-1.00	0.26
1985244	-1.20	-1.07	0.00	0.85	0.68	-0.14	-0.68	-0.26	1.54	-1.77	-2.35	-1.38	-0.85	-1.38	-1.14
1570042	-1.58	-1.20	-1.07	-1.26	-1.00	-1.38	-1.54	-1.26	-1.00	-0.85	-0.77	-0.38	1.77	1.07	0.49
2079906	-0.68	-0.68	-1.38	-1.00	-1.07	-1.07	-1.38	-0.77	-2.00	-1.20	-1.26	-0.38	-1.20	-1.26	-1.00
2852042	-0.49	-0.77	-2.58	-2.72	-2.49	-1.00	-1.89	-1.54	-1.85	-1.43	-2.07	-0.49	-0.14	-0.14	0.58
1319020	-0.58	-0.58	-2.41	-2.04	-2.54	-0.26	-1.32	-0.14	-1.93	-1.63	-1.58	-1.20	-1.00	-1.00	-1.20
1572555	-1.43	-2.07	-3.42	-3.23	-3.78	-1.68	-2.56	-1.20	-2.04	-2.20	-2.79	-1.58	-2.74	-3.09	-2.58
782235	0.38	-0.93	-2.14	-2.89	-2.51	-1.93	-2.94	-0.14	-2.38	-1.68	-2.10	-1.26	-3.51	-2.89	-2.46
1314882	-0.77	0.38	-2.43	-2.43	-2.77	-1.93	-2.49	-0.77	-2.20	-1.54	-2.38	-0.93	-3.00	-3.09	-2.20
1403636	-0.38	-0.38	-2.54	-2.54	-2.17	-1.77	-2.07	-1.68	-2.23	-1.07	-1.38	-0.38	0.14	-0.38	-0.14
1968921	-0.38	-0.38	-1.07	-1.07	-0.85	-0.38	-0.58	0.14	-0.93	0.00	-0.26	0.14	-0.49	-0.77	-0.93
1558081	0.26	0.00	-2.14	-1.77	-2.04	0.00	-1.43	-0.14	-1.43	-1.20	-1.26	-0.93	-2.00	-2.00	-1.81
2495131	0.14	0.58	-1.63	-1.49	-2.23	-1.58	-1.85	-1.14	-2.54	-1.14	-1.38	-0.58	-0.26	-1.14	-1.00
4049957	-1.14	-1.54	-3.56	-3.90	-4.34	-1.72	-3.05	-1.32	-3.63	-2.72	-2.70	-1.26	-3.10	-3.15	-3.04
1686585	-2.26	-2.10	-2.87	-2.41	-3.20	1.00	0.49	0.93	-2.07	-2.00	-2.96	-1.07	-1.81	-1.96	-1.14

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2696735	-2.74	-2.56	-3.25	-3.09	-3.05	-2.56	-2.96	-2.58	-2.58	-2.81	-2.94	-2.04	-2.87	-3.35	-2.58
1720149	-0.85	-0.85	-1.72	-1.63	-1.89	-1.14	-1.63	-0.68	-2.51	-1.32	-2.35	-0.38	-1.58	-1.96	-1.63
1866751	-1.32	-2.10	-3.15	-2.81	-3.00	-1.85	-2.79	-2.32	-2.74	-2.00	-2.54	-1.32	-3.09	-3.05	-2.58
1851696	1.43	1.54	-1.20	-1.43	-1.85	-1.26	-1.68	-0.93	-2.07	-2.43	-2.38	-1.96	-1.77	-1.89	-1.20
93820	-3.28	-3.17	-2.54	-2.61	-2.43	0.68	-0.58	-0.49	-2.51	-2.87	-2.54	-2.26	2.07	0.38	2.98
2368282	-0.93	-0.93	-0.77	-0.93	-0.49	-1.07	-1.00	-1.14	-0.58	-0.38	-0.49	-0.68	-1.14	-1.14	-0.77
2831248	0.77	0.58	-0.85	-0.77	-1.00	0.38	0.38	0.26	0.26	0.26	0.00	0.38	-0.49	-0.58	-0.77
182802	-1.49	-1.20	-0.85	-1.07	-1.14	-1.14	-1.14	-0.77	-0.85	-1.38	-1.38	-1.49	-1.32	-1.49	-0.68
1003884	0.77	0.14	-1.77	-1.38	-2.00	1.00	0.38	0.93	-1.00	-0.38	-1.14	-0.26	-2.07	-2.00	-1.81
1120	0.00	0.14	-0.26	-0.14	-0.26	0.26	0.38	0.49	1.43	0.38	0.38	0.68	-0.77	-0.93	-0.68
1308542	-0.85	-0.68	-0.14	0.58	0.26	-0.77	-0.77	-1.14	0.68	-0.58	-0.38	-0.93	-0.77	-0.93	-0.58
3820761	-0.14	0.38	-2.23	-1.38	-2.98	-0.58	-0.58	0.00	-1.89	-3.39	-3.45	-3.12	-2.58	-2.91	-2.56
1999167	-0.26	0.00	0.58	1.26	0.38	0.93	0.26	1.38	-1.68	-0.38	-1.38	-0.58	-2.20	-2.23	-2.23
1522716	0.00	0.38	-2.74	-2.94	-3.28	-1.14	-1.38	-0.26	-1.81	0.14	-1.07	1.14	-1.81	-1.68	-1.32
1612969	-1.14	-1.20	-0.93	-0.77	-1.07	-0.93	-1.32	-0.58	1.20	-0.85	-1.14	-0.58	-0.49	-0.77	-0.77
337500	0.00	0.14	-0.49	0.00	0.14	0.38	0.26	0.68	1.72	0.77	-0.14	0.93	-0.49	-0.85	-0.68
1285380	0.00	0.14	-0.77	-0.77	-0.38	-0.49	-0.49	-0.38	-0.49	-0.14	0.00	0.38	-0.38	-0.49	-0.26
1636639	-0.14	-0.14	-0.85	-1.26	-1.00	-1.43	-1.38	-1.07	1.14	-0.77	-1.14	-0.58	-0.68	-0.77	-1.00
1985870	0.38	0.68	-0.68	-1.07	-0.58	-0.85	-1.26	-0.68	-0.85	1.14	0.49	1.54	-0.85	-0.68	-0.14
1677936	-5.60	-6.02	-5.46	-5.53	-5.44	-6.07	-6.43	-6.18	-5.26	-5.56	-5.26	-4.40	-6.37	-6.64	-5.63
910612	-5.26	-5.38	-5.80	-5.43	-5.10	-5.36	-5.55	-5.99	-5.03	-4.76	-5.30	-4.75	-5.48	-6.28	-5.02
2594407	-2.77	-3.89	-5.50	-4.83	-5.13	-5.07	-5.31	-5.01	-5.10	-4.97	-5.41	-4.45	-5.50	-5.77	-5.31
963536	-3.41	-3.49	-2.96	-3.43	-2.89	-3.72	-3.49	-3.51	-3.22	-3.04	-3.29	-3.09	-3.43	-3.68	-3.04
2252895	-2.07	-2.35	-1.58	-2.17	-1.85	-1.26	-1.54	-1.77	-1.63	-1.85	-1.63	-1.32	-2.00	-2.26	-1.20
2804190	-0.58	-0.14	-0.93	-1.14	-0.68	-0.93	-0.85	-0.68	-0.68	-0.38	-0.14	-0.26	-0.49	-1.00	-0.14
1998428	-0.49	-0.26	-2.51	-2.79	-2.00	-2.77	-2.58	-2.51	-1.81	-2.66	-2.51	-2.43	-3.50	-3.51	-2.93
1800114	0.38	-0.26	-1.58	-1.63	-1.72	0.26	-0.93	0.85	-2.04	-1.38	-1.14	-1.54	-2.14	-1.93	-1.93
1806769	1.14	1.54	-1.85	-1.72	-2.00	-1.93	-1.81	-1.96	-0.77	-2.56	-1.96	-2.29	-2.43	-2.98	-1.77
2474163	-1.43	-1.00	-1.14	0.49	-0.26	0.85	0.68	1.20	-1.07	-2.10	-2.04	-1.68	0.00	-0.49	0.26
1435374	0.93	0.14	1.32	1.20	-0.38	0.77	-0.58	0.85	0.93	-1.89	-2.35	-1.96	-3.50	-3.74	-2.56

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
434377	0.93	1.14	-1.00	-1.26	-1.20	-1.26	-1.26	-1.43	-1.72	0.00	0.14	1.81	-1.96	-2.07	-1.63
2121863	0.38	0.49	-1.77	-2.20	-1.72	-0.38	-0.85	-0.58	-2.14	-0.38	-1.07	-0.38	-2.26	-2.29	-1.63
1597231	-1.58	-1.26	0.93	2.04	1.32	-0.93	-1.43	-1.20	x	-1.77	-1.38	-1.00	-0.14	-0.26	0.14
4174437	-4.55	-3.55	-4.21	-4.49	-4.32	-4.77	-5.10	-4.79	-4.60	-3.84	-4.32	-2.54	-4.55	-4.84	-4.47
2182901	-4.47	-3.99	-4.10	-4.31	-3.96	-4.41	-4.90	-4.57	-4.35	-3.94	-4.48	-3.15	-4.46	-4.65	-4.08
1747979	-0.14	-0.14	-0.58	-0.68	-0.58	-0.49	-0.93	-0.26	-0.26	1.49	1.20	1.43	0.26	0.00	0.00
1630553	-0.58	0.14	-1.38	-1.68	-1.63	-1.20	-1.68	-0.68	-1.26	-1.85	-1.89	-1.20	-1.38	-1.49	-1.00
478960	-0.38	0.14	-1.00	-0.77	-0.68	0.49	0.14	0.85	0.85	-1.07	-0.77	-0.68	-1.26	-1.49	-0.77
2132487	-0.58	-0.68	-0.14	-0.26	-0.26	-0.93	-1.20	-1.07	0.58	-0.68	-0.38	-0.58	-0.77	-0.77	-0.26
2921152	-3.46	-3.00	-3.34	-3.32	-2.94	-3.79	-3.19	-3.61	-3.34	-3.64	-3.50	-3.52	-3.02	-3.55	-2.43
1846428	-1.96	-1.32	-1.38	-1.07	-1.14	-1.54	-1.89	-1.49	-1.43	-2.43	-2.14	-1.58	-2.10	-2.35	-2.04
2796143	0.85	0.85	-1.77	-1.85	-1.72	1.14	1.00	1.26	0.68	-0.49	-0.85	-0.14	0.14	-0.38	-0.26
1805613	-0.93	-0.85	-0.77	-0.93	-0.85	-1.14	-1.43	-1.43	-0.93	-1.07	-0.85	-0.38	-0.77	-1.38	-0.68
1431273	-2.43	-2.32	-2.79	-2.32	-2.00	-2.38	-2.35	-3.09	-1.72	-2.07	-2.14	-2.00	-2.35	-2.63	-1.68
1804662	-1.26	-1.14	0.49	1.32	0.38	0.26	-0.26	0.38	-0.77	-0.85	-1.14	-1.14	-1.07	-1.20	-0.77
2921194	0.14	0.68	-2.35	-2.41	-2.26	-0.58	-0.85	-0.58	-1.85	-1.20	-1.49	-0.68	-1.81	-2.14	-1.68
395368	-1.54	-2.04	-2.41	-2.56	-2.20	0.00	-0.49	-0.26	-2.26	-1.96	-1.85	-0.93	-2.96	-3.09	-2.10
2182861	-0.77	-0.58	-0.68	-0.26	0.00	-0.58	-0.49	-0.26	-0.26	-0.49	-0.58	-0.14	-0.58	-0.85	-0.49
1806436	-1.43	-1.58	0.26	0.38	0.26	0.14	0.00	0.77	x	-0.93	-0.58	-0.68	-0.85	-0.49	-0.26
2922143	-2.89	-2.91	-2.46	-2.58	-2.51	-3.32	-2.79	-3.12	-2.89	-2.58	-2.91	-2.91	-2.94	-2.72	-1.26
1696001	-1.43	-1.32	-0.58	-0.85	0.14	0.00	-0.49	0.14	-0.38	-1.07	-0.77	-0.93	-1.00	-1.26	-0.85
1635004	-3.10	-2.83	-1.20	-1.63	-2.14	-3.17	-3.46	-3.17	-1.68	-2.77	-0.26	-2.63	-3.14	-3.19	-2.41
2132752	-1.38	-2.32	-2.26	-2.58	-2.32	-1.58	-1.89	-2.00	-1.89	-1.89	-2.35	-1.38	-3.02	-3.09	-1.38
1734393	-3.26	-3.28	-2.81	-3.23	-2.56	-3.71	-3.05	-3.35	-2.07	-3.68	-2.41	-2.91	-3.29	-2.20	-3.09
4179338	-4.94	-4.93	2.20	3.09	2.49	-5.26	-4.60	-4.98	-4.79	-4.93	-5.09	-4.34	-4.63	-5.15	-4.27
1427623	-2.68	-2.49	1.20	2.04	1.26	-1.32	-1.63	-1.20	x	-2.49	-1.63	-2.38	-2.35	-2.56	-1.58
3320987	-2.26	-2.77	-1.63	-1.14	-1.49	1.32	0.38	1.89	-2.89	-1.93	-2.07	-0.49	-3.35	-3.87	-2.56
2239819	-2.20	-2.51	-2.00	-2.04	-1.81	1.72	2.00	1.14	1.07	-2.56	-1.72	-1.96	-2.43	-2.63	-1.77
876720	3.00	3.09	-0.49	-1.07	-0.49	-0.93	-1.00	-0.85	-0.85	-0.49	-0.26	-0.49	-1.00	-1.07	-0.68
1910091	2.20	1.72	-0.58	-1.00	-0.85	-0.58	-0.85	-0.58	-0.49	-0.77	-0.77	-0.38	0.68	0.77	0.38

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2174130	1.81	1.85	-0.38	-0.38	-0.85	-0.26	-0.26	-0.26	-0.49	0.49	0.77	0.49	-0.93	-0.68	-0.14
2219077	2.83	1.81	0.00	-0.26	-0.38	-0.26	-0.68	-0.26	-0.49	0.00	-0.49	-0.14	-0.49	-0.85	-0.68
1965041	2.32	2.20	-0.58	-0.49	-0.93	1.38	0.93	0.77	-0.49	0.68	1.49	0.26	-0.58	-0.77	-0.49
1649959	2.49	2.26	-0.77	-0.77	-1.07	0.00	0.00	0.49	-0.93	-2.04	-1.38	-2.04	-1.72	-2.29	-1.54
1222317	2.10	2.10	-1.58	-1.77	-1.14	-0.26	-0.38	-0.26	-1.00	0.38	0.58	0.58	-1.38	-1.96	-0.26
2510171	3.14	2.72	-0.26	0.38	-0.77	-1.14	-1.32	1.00	-0.85	-1.77	-1.68	-1.32	-1.26	-1.63	-1.26
1988674	2.96	1.96	-0.77	-1.32	-1.00	-1.32	-0.93	-1.43	-1.07	-0.14	-0.68	0.38	-1.26	-0.68	-0.49
1672640	1.49	1.54	-1.54	-1.77	-1.77	-1.38	-1.81	-0.85	-1.26	0.58	0.14	0.14	-1.38	-1.07	-0.68
1749417	2.17	1.58	-1.07	-0.26	-0.77	1.77	1.14	2.32	-1.38	-0.77	-0.77	-1.07	-1.00	-1.00	-1.63
1926543	-0.68	-0.26	1.96	2.23	2.14	1.07	1.26	0.49	-0.26	0.00	-0.38	-0.58	-0.26	-0.68	0.00
1504934	-2.85	-2.38	3.09	3.82	3.07	-1.38	-0.93	-1.58	-1.96	-2.14	-2.32	-2.07	-2.32	-2.98	-1.96
2512879	0.38	0.38	2.81	3.02	3.17	-0.93	-1.85	-1.32	-2.29	-1.20	-0.68	-1.68	-3.02	-3.55	-2.72
1359832	0.38	0.38	2.49	3.31	2.96	-1.26	-2.23	-0.93	-2.94	-2.41	-1.38	-2.51	-5.09	-5.09	-4.04
1583076	0.38	0.26	2.68	3.20	3.07	-1.07	-1.89	-1.07	-2.20	-1.72	-0.77	-1.96	-3.32	-3.42	-2.68
139838	-2.87	-2.72	3.34	3.71	3.89	-2.89	-2.63	-2.79	-2.54	-2.85	-2.54	-2.17	-2.79	-3.15	-2.35
1344654	-1.20	-0.77	3.38	3.17	3.12	1.20	1.07	0.49	-1.00	-1.20	-1.07	-0.93	-1.32	-2.07	-1.14
2513979	-3.35	-2.85	3.52	3.91	3.95	-3.45	-2.68	-3.36	-3.25	-3.66	-3.28	-2.79	-3.04	-3.70	-3.34
2369312	-1.58	-0.58	4.09	3.64	4.10	-3.94	-4.03	-3.36	-3.61	-0.58	0.14	-1.96	-3.12	-3.04	-1.54
2048364	-3.71	-1.89	3.46	3.99	3.68	-3.38	-3.73	-2.96	-3.34	-3.79	-3.63	-3.34	-2.46	-2.58	-1.58
85246	-4.22	-4.47	3.20	4.17	3.19	-3.72	-3.82	-4.29	-4.04	-4.87	-4.49	-3.97	-4.43	-5.34	-4.43
166337	-1.32	-2.07	3.26	3.93	3.38	-2.07	-2.10	-2.29	-1.20	-1.43	-1.00	-1.20	-2.38	-2.29	-1.68
138274	-1.00	-0.58	2.63	3.09	2.23	-1.20	-1.14	-1.07	-0.68	-0.93	-0.26	-0.68	-0.85	-0.77	-0.58
1633340	-2.07	-1.89	2.83	3.38	2.94	-1.89	-1.54	-1.96	-1.43	-1.63	-1.58	-1.32	-1.43	-2.00	-1.32
1982416	-0.93	-1.20	3.29	3.39	2.51	-1.32	-0.77	-1.32	-0.68	-0.14	0.00	-0.38	-0.85	-0.93	-0.26
946822	-0.68	-0.49	1.14	1.63	1.26	-0.49	-0.49	-0.14	-0.49	-0.85	-0.58	-0.49	-0.58	-0.58	-0.68
2517330	-0.26	-0.38	2.14	1.89	1.32	-0.38	-0.38	-0.49	0.14	-0.26	-0.14	-0.14	0.00	0.14	0.00
2516489	-0.85	-1.00	2.79	3.00	2.72	0.14	0.38	0.68	-0.68	-1.07	-1.20	-0.77	-0.93	-0.93	-1.00
88741	-1.93	-1.49	3.92	3.69	2.56	-2.07	-1.93	-1.93	-1.32	-2.26	-1.00	-1.00	-1.58	-2.10	-1.43
168865	-2.26	-2.23	3.07	3.57	3.49	-2.23	-2.17	-2.63	-1.96	-1.68	-2.10	-1.81	-2.35	-2.58	-1.38
231779	-0.77	-0.93	2.00	2.23	1.81	-0.68	-0.49	-0.77	-1.00	-0.38	-0.26	-0.14	-1.07	-0.85	-0.68

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
234123	-1.20	-0.93	1.81	1.32	1.38	1.26	1.32	0.85	0.00	-1.00	-0.85	-1.43	-0.85	-1.00	-0.49
1833801	-0.14	-0.58	2.17	2.70	2.68	1.32	1.14	1.14	x	-0.77	-0.68	-0.26	-0.26	-0.49	-0.26
1923613	0.00	-0.26	2.83	2.51	3.32	1.14	1.81	0.58	-0.93	-0.93	-0.77	-0.93	-0.49	-0.77	-0.38
2058620	-0.77	-0.77	1.32	1.85	1.81	1.07	1.32	1.07	-0.85	-0.85	-1.14	-0.38	-1.00	-1.20	-1.00
1930954	-0.49	-0.38	3.07	2.66	1.81	0.93	1.07	0.49	x	-0.49	-0.77	-0.85	-1.26	-1.32	-0.58
1511658	-4.58	-5.14	3.62	4.31	2.70	-5.11	-5.15	-2.04	-4.02	-4.79	-4.59	-4.25	-5.39	-5.07	-4.34
2590673	-1.32	-0.85	3.39	3.25	3.31	-0.49	-1.14	0.00	-0.85	-1.85	-1.26	-1.72	-1.49	-1.93	-1.20
1995380	0.49	0.93	1.58	2.41	2.00	0.85	-0.14	1.14	-0.68	-2.04	-2.23	-2.17	-0.68	-1.38	-0.85
167409	-4.55	-4.54	2.89	4.34	3.19	-3.89	-4.58	-3.98	-1.72	-4.36	-3.47	-3.55	-4.60	-4.62	-3.95
1846226	-0.68	-0.26	1.32	1.49	1.85	0.68	0.93	0.85	-1.07	-0.85	-1.26	-0.58	0.68	0.26	0.38
2052185	-3.20	-3.19	3.42	4.54	2.89	-3.89	-4.04	-3.61	-3.00	-3.81	-3.26	-3.09	-3.80	-3.91	-3.36
2517389	-2.14	-1.81	3.66	3.20	3.32	-1.07	-0.85	-1.43	-1.38	-1.43	-1.89	-1.32	-1.63	-2.20	-1.32
911015	-1.20	-1.14	3.23	3.14	2.49	1.43	1.00	1.20	-0.68	-1.20	-0.49	-0.93	-1.58	-1.26	-1.07
604856	0.00	-1.14	3.22	3.36	0.00	-1.54	-1.93	-0.58	-1.20	-0.93	-1.49	-0.58	-1.63	-2.32	-1.93
1448718	-2.66	-2.56	4.84	3.64	-1.43	-2.79	-2.20	-2.35	-1.68	-2.51	-1.68	-1.93	-2.68	-2.17	-2.23
2517268	-2.41	-2.07	3.12	4.10	3.04	-2.41	-2.10	-2.43	-1.77	-1.77	-1.81	-1.54	-2.26	-2.20	-1.38
167134	-2.00	-2.38	3.28	3.63	3.63	-2.17	-2.35	-2.20	-1.63	-1.26	-1.77	-1.96	-2.32	-1.93	-0.85
2843638	0.68	0.49	3.10	2.63	2.23	-0.58	-0.38	-0.49	-0.26	-0.14	0.00	-0.58	-0.26	-0.14	-0.26
1813269	-0.49	0.26	3.60	3.77	3.31	-2.74	-3.49	-3.46	-2.61	-1.07	-2.20	0.14	-3.34	-4.07	-2.66
1861971	-4.26	-3.64	3.26	4.32	3.09	-5.41	-5.44	-4.95	-4.96	-4.89	-4.64	-4.91	-5.12	-5.58	-4.47
2005973	-0.68	-1.20	2.43	3.61	2.54	-0.26	-0.68	-1.00	-1.00	-1.07	-1.20	-1.43	-1.43	-1.81	-0.77
2515729	-2.89	-2.83	3.46	3.87	3.88	-1.14	-2.17	-0.58	-1.81	-2.85	-2.98	-2.94	-1.68	-2.63	-2.17
2132356	-1.07	-0.85	2.98	3.32	2.74	0.77	0.00	0.58	x	-1.07	-0.85	-0.85	-0.85	-1.38	-0.68
1001726	-0.14	-0.58	2.54	2.77	2.83	1.38	0.93	1.00	x	-1.38	-1.07	-0.77	-0.14	-0.38	-0.38
2631845	-1.07	-1.49	2.70	4.40	-0.49	-2.07	-2.23	-1.93	-2.51	-2.46	-2.29	-2.51	-3.00	-3.32	-2.51
86390	-1.20	-1.43	3.04	4.00	2.51	-1.54	-1.89	-1.63	-1.14	-0.85	-1.07	-0.49	-1.93	-2.04	-1.00
1287840	-0.68	-0.77	1.54	1.07	1.93	0.38	0.49	0.58	-0.58	-1.00	-0.93	-0.58	-0.68	-0.68	-0.77
2516905	-0.77	-0.93	2.46	3.55	2.63	-1.07	-0.85	-1.07	-0.26	-0.49	-0.49	-0.49	-0.38	-0.58	-0.14
606122	-1.49	-1.32	3.23	3.02	1.49	-1.49	-1.00	-1.72	-1.00	-1.38	-0.77	-1.49	-1.00	-1.38	-1.43
3553733	-0.93	-0.77	2.23	3.87	1.38	-0.68	-1.14	0.00	-1.00	-0.85	-1.38	-0.85	-0.93	-1.07	-0.58

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Siriatum (3971)
1813381	-2.72	-2.58	3.52	4.06	3.70	-2.41	-2.54	-2.58	-1.81	-2.61	-2.20	-2.00	-2.85	-3.20	-2.32
1988108	-0.26	-0.26	2.17	2.29	2.10	0.49	0.14	0.26	1.07	-0.49	-0.85	-0.26	-1.85	-1.81	-1.00
1644648	-2.35	-1.32	1.38	2.07	2.35	1.32	0.93	1.07	-0.14	-1.96	-2.41	-1.77	-2.10	-2.38	-1.68
2516104	-3.79	-3.77	2.89	3.12	3.31	-3.91	-3.63	-3.45	-3.15	-3.45	-3.60	-3.28	-3.77	-3.91	-3.31
2516448	-1.93	-1.77	3.39	2.51	3.23	-1.93	-1.77	-1.68	-1.14	-1.32	-1.77	-1.14	-1.43	-1.81	-1.68
2514507	-3.67	-3.46	3.52	3.47	3.78	-3.23	-2.96	-4.01	-2.81	-3.20	-3.07	-2.94	-3.15	-3.86	-3.26
1427470	-0.93	-0.85	2.00	2.61	1.96	-1.54	-1.49	-1.72	0.38	-0.85	-0.77	-0.85	-1.20	-1.43	-0.68
1311471	-2.26	-2.61	3.90	3.84	4.10	-2.26	-2.10	-2.23	-1.38	-1.89	-2.20	-1.72	-2.43	-2.38	-1.77
195142	-2.58	-2.79	3.26	3.88	3.47	-2.41	-2.54	-2.46	-2.14	-2.98	-2.54	-2.26	-2.91	-2.58	-2.43
29598	-3.60	-3.34	2.81	3.82	2.94	-2.54	-2.54	-3.12	-3.14	-3.73	-3.19	-2.79	-4.31	-4.56	-3.72
1968576	0.26	0.14	1.96	2.63	1.54	0.93	1.32	0.58	-1.07	-1.20	-1.26	-0.77	-2.00	-2.17	-1.32
2959255	-1.26	-0.85	1.26	1.85	1.72	-0.58	-0.26	-0.26	-1.85	0.38	-0.14	1.07	-1.07	-1.38	-0.85
446969	-1.00	-0.26	3.07	3.74	2.70	-0.58	-1.89	0.49	-2.17	-1.96	-2.70	-1.43	-2.85	-3.32	-1.89
1631511	-1.49	-1.00	1.49	2.32	2.07	1.07	1.49	0.58	-1.85	-1.93	-1.72	-1.68	-2.61	-2.93	-2.29
1508741	-0.38	0.14	3.12	4.13	3.19	-3.00	-2.94	-2.66	-1.54	-2.91	-2.04	-2.66	-2.66	-3.10	-2.10
2513602	-2.51	-2.56	2.04	3.17	3.23	2.35	1.77	1.77	-1.81	-1.96	-1.89	-1.77	-2.10	-2.70	-1.38
1981145	-1.49	-1.63	1.85	2.77	2.58	1.63	2.20	1.26	-1.63	-2.10	-2.04	-2.20	-1.54	-2.00	-1.93
2103752	0.58	0.93	1.72	2.26	1.32	1.58	1.43	1.32	0.26	-1.00	-1.49	-1.07	-1.63	-2.07	-1.68
2658782	-2.72	-2.04	1.77	3.66	1.68	1.72	0.68	1.81	x	-2.85	-2.20	-2.87	-1.93	-2.46	-1.93
2099420	-1.43	-1.38	2.51	1.72	2.72	2.49	1.63	2.07	-0.93	-1.72	-1.38	-1.77	-1.14	-1.54	-0.85
637639	-2.54	-2.68	2.38	3.39	2.63	1.58	1.43	1.07	-2.17	-1.85	-0.77	-2.35	-2.38	-2.26	-1.58
279249	-3.78	-3.73	2.49	3.14	2.79	1.85	2.04	1.58	-3.15	-2.81	-2.32	-3.41	-3.15	-3.69	-2.63
1379063	-1.54	-1.26	2.96	3.02	2.10	1.93	1.54	1.58	-0.93	-1.63	-1.38	-1.14	-2.07	-2.17	-1.20
89747	-3.28	-3.43	2.83	3.69	2.98	1.63	1.38	1.32	-1.89	-3.19	-2.81	-2.56	-3.19	-2.66	-2.41
2515873	-1.96	-1.68	2.51	3.29	2.79	1.32	0.77	1.54	-2.07	-2.32	-2.41	-1.43	-1.00	-1.49	-1.20
1432372	0.38	1.07	1.26	2.14	1.89	1.68	1.20	1.68	-1.00	-1.14	-0.68	-0.85	-1.63	-1.54	-1.20
1633719	-3.46	-3.52	2.38	2.49	3.00	1.77	1.85	1.49	-1.89	-3.70	-2.98	-2.63	-3.77	-3.47	-2.96
1712663	-1.20	-0.68	3.34	3.49	2.41	-1.49	-1.38	-1.07	1.32	-1.43	-1.07	-1.38	-1.72	-1.49	-0.85
4285203	-1.26	-1.20	2.81	3.72	2.00	-1.43	-1.49	-1.20	1.49	-1.38	-1.58	-0.85	-1.32	-1.81	-1.00
1634342	-0.49	0.26	0.68	0.93	0.93	1.58	1.58	1.93	-0.38	-0.85	-1.07	-0.68	-0.58	-1.14	-0.85

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1418871	-1.00	-1.14	-0.93	-0.85	-0.49	2.81	2.77	2.61	-0.85	-1.32	-1.14	-1.20	-1.07	-1.38	-0.85
3766382	-0.85	-1.00	-0.77	-1.20	-1.20	1.89	1.43	1.49	-0.77	-0.49	0.00	-1.07	-1.49	-1.14	-0.68
943181	-1.72	-1.63	-1.26	-1.68	-1.32	2.85	3.07	1.89	-1.00	-1.38	-0.77	-1.43	-1.38	-1.32	-1.00
603761	-2.00	-1.54	-1.81	-1.93	-1.20	3.12	1.32	3.63	x	-1.85	-1.32	-1.26	-1.14	-1.14	0.00
1297562	0.68	0.77	-2.26	-2.56	-2.26	1.63	2.07	1.32	0.49	-0.58	-1.81	-1.81	-1.00	-0.68	-0.49
2910715	0.58	0.26	-1.00	-0.93	-0.77	2.54	1.32	2.81	0.49	-0.68	-0.77	-0.49	-1.43	-1.77	-1.14
196975	-0.68	-0.85	0.49	0.85	0.49	1.89	1.32	1.85	x	-0.38	-0.49	0.00	-0.26	-0.26	-0.38
1453049	1.32	1.58	-0.77	-0.93	-1.07	2.17	1.93	2.26	x	-1.43	-1.07	-0.93	-1.77	-1.77	-1.00
1968695	-0.26	-0.49	-1.32	-1.00	-0.85	1.63	1.07	1.89	-1.20	-0.38	-0.14	0.00	-1.14	-1.07	-1.00
958344	-4.09	-3.74	-3.89	-3.54	-3.39	3.02	3.12	2.94	-2.10	-3.60	-3.64	-3.81	-4.03	-4.22	-2.93
2820985	-2.91	-2.29	-0.68	0.14	-0.38	2.43	1.77	2.70	-1.58	-2.54	-1.68	-2.14	-1.96	-3.05	-1.58
1633393	-0.38	-0.49	-1.49	-1.14	-1.26	1.49	1.49	1.54	-0.14	-1.54	-1.54	-1.63	0.49	0.00	-0.26
1806451	-1.58	-1.14	-1.49	-1.00	-1.14	2.49	2.68	1.68	-1.00	-1.43	-1.07	-0.93	-1.38	-1.85	-0.77
2674772	-2.93	-2.96	-0.26	0.14	0.14	3.17	2.17	2.94	-1.63	-2.94	-2.38	-2.20	-3.26	-3.23	-2.23
1376121	1.20	1.58	-1.20	-1.07	-0.68	1.63	1.63	1.93	-0.85	-0.85	-0.68	-0.58	-1.20	-0.58	-0.85
831794	-1.72	-1.26	0.58	1.54	0.93	2.23	1.58	2.04	-2.17	-1.63	-1.54	-1.93	-0.58	-0.68	-0.49
1427681	-2.04	-2.20	1.77	2.17	2.70	2.72	2.43	2.54	-1.85	-2.17	-1.63	-1.58	-2.35	-2.43	-1.85
2912830	-3.32	-3.56	0.14	-0.14	-0.85	3.20	2.87	2.54	0.58	-2.98	-3.15	-2.89	-3.77	-3.79	-2.68
504786	-2.35	-1.85	-2.43	-2.98	-2.49	2.51	2.38	2.32	-2.23	-1.81	-2.04	-1.38	1.63	1.20	0.58
254081	-5.47	-5.31	-4.95	-5.03	-5.13	-4.78	-4.73	-5.17	4.21	-4.70	-5.38	-5.43	-5.35	-5.44	-4.66
1330674	-5.03	-5.22	-4.34	-4.84	-4.91	-4.36	-5.42	-5.00	4.39	-4.39	-4.52	-4.81	-5.07	-5.31	-3.91
2377834	-6.27	-6.31	-5.95	-5.86	-5.77	-6.48	-6.63	-6.55	4.69	-6.10	-6.11	-5.81	-6.64	-6.60	-5.98
2075464	-4.57	-4.94	-4.38	-4.83	-3.97	-5.08	-4.77	-4.82	4.28	-4.75	-4.23	-4.38	-5.01	-4.77	-4.55
2383235	-5.07	-5.35	-4.99	-4.95	-4.97	-5.48	-5.85	-5.69	4.59	-4.95	-5.43	-4.91	-5.73	-5.77	-5.00
1285503	-0.85	-0.85	-1.49	-1.81	-1.68	-2.14	-2.38	-1.49	2.43	-2.46	-1.38	-1.54	-2.07	-2.29	-1.85
2383205	-5.14	-5.34	-4.54	-4.85	-4.73	-5.55	-5.63	-5.53	4.66	-5.37	-5.28	-4.89	-5.67	-5.63	-5.01
2015871	-5.38	-5.30	-5.41	-5.03	-4.74	-5.25	-5.17	-5.35	2.66	-4.97	-4.95	-4.73	-4.88	-5.64	-4.84
2374046	-0.68	-0.77	-0.49	-1.20	-0.49	-0.58	-0.58	-0.58	3.55	-1.07	-0.49	-1.20	-0.38	-0.68	-0.49
1709828	1.14	0.38	-0.49	-0.49	-0.38	1.20	0.93	0.93	2.26	-0.26	-0.93	-0.14	-0.26	-0.38	0.00
2061119	-0.38	-0.58	-0.77	-0.68	-0.85	0.14	0.14	0.14	1.93	0.00	-0.26	0.00	-0.14	-0.38	-1.20

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
3665105	-2.94	-3.04	-2.83	-3.14	-3.04	-1.49	-1.72	-1.49	4.26	-2.94	-2.83	-2.89	-2.81	-3.46	-2.29
2068983	-3.04	-3.39	-3.23	-3.09	-3.05	-3.45	-3.41	-3.39	4.96	-3.46	-2.85	-2.68	-3.35	-3.35	-3.32
2242648	-3.57	-3.68	-3.39	-3.69	-3.50	-3.67	-4.55	-3.45	3.87	-3.73	-3.69	-3.69	-3.80	-3.89	-3.20
885032	-3.47	-3.17	-3.38	-3.14	-2.77	-3.45	-2.89	-3.28	3.85	-2.17	-2.35	-2.94	-2.61	-3.20	-2.04
2383830	-4.65	-5.12	-5.48	-5.45	-5.13	-5.76	-5.69	-5.91	4.54	-5.76	-5.39	-5.03	-6.48	-6.49	-5.74
2085191	-6.64	-6.64	-6.35	-6.41	-6.23	-6.64	-6.64	-6.64	4.35	-6.64	-6.64	-6.60	-6.64	-6.64	-6.42
2792982	-6.20	-6.20	-6.03	-5.79	-5.51	-6.15	-6.08	-6.16	4.48	-5.95	-5.86	-5.76	-5.53	-6.12	-5.82
179929	-1.20	-1.26	-0.77	0.26	-0.93	0.58	-0.26	0.58	2.20	-2.07	-2.07	-1.07	-2.35	-2.54	-2.04
2741788	-1.68	-1.43	-1.43	-1.20	-1.49	-1.38	-1.58	-1.00	2.83	-0.14	-0.14	0.00	-1.26	-1.07	-1.32
2373608	-4.11	-4.46	-3.46	-4.36	-3.60	-4.09	-3.79	-3.92	4.07	-4.22	-3.99	-3.49	-4.10	-3.91	-3.78
2182095	-4.31	-4.14	-4.32	-4.07	-3.79	-4.14	-4.08	-4.40	4.19	-3.51	-3.64	-3.68	-3.86	-4.50	-3.46
2923150	-6.52	-6.64	-6.21	-6.32	-6.20	-6.56	-6.64	-4.96	5.07	-6.46	-6.64	-6.19	-6.64	-6.64	-6.55
293495	-0.93	-1.49	2.56	3.78	1.38	-2.38	-2.91	-0.58	3.47	-1.63	-2.54	-2.72	-2.32	-2.98	0.14
4284270	-1.14	-1.26	2.68	3.79	1.81	-1.63	-1.20	-1.38	3.15	-1.72	-1.49	-1.20	-1.26	-1.58	-0.93
958923	-1.26	-1.32	-0.26	-1.07	-0.49	1.89	1.72	1.85	2.41	-1.32	-0.49	-0.85	0.77	0.68	-0.38
1921393	-3.00	-2.14	-2.91	-2.93	-2.29	2.20	1.20	2.54	3.19	-1.38	-2.49	-1.85	-2.87	-3.25	-2.41
1447866	-0.26	0.26	-0.26	-0.58	0.00	-0.38	-0.26	-0.26	-0.58	2.00	2.07	1.93	-1.07	-1.00	-0.26
1666737	1.14	0.93	-0.38	-0.77	-0.26	-0.14	-0.49	0.14	-0.49	2.54	2.17	2.61	-1.49	-1.58	-0.14
586245	-1.07	-0.26	-0.77	0.49	-0.58	-0.77	-0.49	-0.68	-1.89	2.72	1.07	2.70	-2.89	-3.02	-2.00
194162	-1.58	-1.54	-1.54	-1.54	-1.43	-1.54	-2.43	-1.43	-2.07	2.20	2.63	2.46	-2.43	-2.89	-1.93
243123	-1.72	-2.00	-1.32	-1.49	-1.58	-1.77	-2.14	-1.93	-0.49	-1.89	-1.77	-1.14	2.91	2.58	1.72
382416	-2.10	-2.23	-2.68	-2.49	-1.54	-3.34	-3.02	-2.58	-2.17	-2.04	-2.17	-2.35	1.68	0.58	3.52
1852659	-1.68	-1.32	-1.77	-2.38	-1.77	-2.43	-2.10	-2.20	-1.49	-2.17	-1.81	-1.81	3.09	2.91	1.38
3220181	-1.07	-0.85	-0.49	0.14	-0.49	-0.49	-0.77	0.14	-0.14	-0.85	-0.93	-0.26	1.72	1.26	1.49
1726307	-0.77	-0.26	-1.32	-1.49	-1.07	-1.38	-1.26	-1.07	-1.32	-0.93	-0.68	-0.68	2.17	1.93	1.54
1904244	-0.85	-0.38	0.00	0.00	0.26	-0.68	-0.14	-0.14	0.14	-0.85	-0.14	-0.26	2.23	2.04	1.43
2039955	-1.20	-1.54	-1.32	-0.68	-0.77	-1.38	-0.93	-1.20	-1.07	-1.20	-1.32	-0.58	2.58	2.63	1.96
2675641	-1.68	-1.43	-1.68	-1.54	-1.20	-0.85	-0.68	-0.77	-1.20	-0.14	-1.00	0.26	2.10	1.93	1.20
1412749	-1.00	-1.00	-0.85	-1.00	-0.49	-1.14	-0.77	-1.26	-0.26	-0.77	-0.38	-1.00	2.43	2.46	2.04
1963854	-0.85	-0.93	-1.20	-1.07	-0.77	0.14	0.26	0.77	-1.00	-0.14	-0.26	-0.38	2.00	1.63	1.00

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2949085	-0.26	-0.14	-1.07	-0.93	-1.20	-0.49	-0.77	-0.49	-0.68	-0.14	-0.38	0.00	2.17	1.68	1.07
2963196	-2.17	-2.00	-2.23	-2.29	-2.26	-2.38	-2.81	-2.10	-2.43	-2.00	-2.32	-1.77	2.35	1.26	2.56
1505977	-1.77	-1.72	-1.26	-1.26	-1.49	-2.17	-2.26	-2.14	-1.49	-2.43	-1.49	-1.89	3.19	2.38	1.58
1674985	-0.77	-0.49	-0.49	-1.00	-0.68	-0.26	-0.26	-0.38	-0.49	-0.58	-0.49	-0.49	1.85	1.89	1.20
2109034	-1.14	-0.58	-0.68	-0.58	-1.14	-0.14	-0.58	-0.26	-0.77	-1.32	-1.07	-0.77	2.35	1.81	1.38
3317039	-1.14	-1.00	-1.07	-1.00	-0.93	0.58	0.14	0.93	-0.68	-1.14	-1.26	-0.85	2.10	2.10	1.68
2838551	-0.93	-0.68	-0.77	-1.00	-0.58	-0.38	-0.38	-0.58	-0.14	-0.85	-0.58	-0.77	1.63	1.63	0.77
1477568	-1.26	-1.26	-2.20	-2.14	-2.32	-0.77	-1.43	-0.77	-1.93	-1.20	-1.77	-0.77	2.14	1.26	2.77
2963871	-0.26	-0.26	-1.32	-1.58	-1.38	-0.77	-0.93	-0.68	-0.77	-0.85	-0.68	-0.58	1.32	1.54	1.72
1740547	-0.77	-1.07	-1.26	-1.38	-1.26	-1.32	-1.20	-1.43	-1.14	-0.77	-0.38	-0.14	2.61	2.41	2.46
2292011	-2.00	-2.41	-1.81	-2.04	-2.04	-2.29	-2.72	-2.10	-2.38	-1.96	-2.51	-2.17	3.29	3.02	0.00
1349484	-0.26	-0.14	-0.26	-0.38	-0.49	-0.49	-0.77	-0.58	x	0.00	-0.14	0.00	1.93	1.85	1.32
1674253	1.00	0.68	-1.00	-1.07	-0.93	0.14	0.58	0.00	-0.85	-0.49	-0.68	-0.26	1.77	1.49	0.85
1932189	-2.38	-2.00	-2.70	-2.46	-2.43	-2.56	-2.38	-2.35	-2.04	-1.26	-2.29	-1.26	3.25	2.61	0.85
1403041	-1.81	-1.58	-1.68	-1.38	-1.14	-1.49	-1.43	-1.43	-1.14	-1.72	-1.20	-0.85	2.96	2.26	1.00
1486358	-1.72	-1.26	-2.70	-2.29	-2.23	-1.63	-1.89	-1.20	-2.56	-2.14	-2.54	-2.29	2.14	1.89	0.85
1439065	-0.14	-0.14	0.38	-0.58	0.14	-0.49	-0.49	-0.49	x	-0.14	0.38	0.00	1.85	1.54	1.77
530629	-0.85	-1.14	-0.58	-1.00	-0.58	-1.32	-1.00	-1.00	x	-0.93	-0.38	-0.38	2.83	2.43	1.68
1672676	-1.72	-1.63	-2.10	-2.26	-2.10	-2.00	-2.17	-1.58	-1.89	-1.54	-1.68	-1.32	2.89	2.58	1.68
1989129	-1.00	-1.07	-1.81	-1.68	-1.81	-0.14	-1.14	-0.14	-1.58	-1.20	-1.77	-0.58	2.29	1.89	2.91
1486348	-2.46	-2.38	-2.43	-2.38	-2.41	-2.54	-2.51	-2.81	-1.68	-1.72	-1.68	-1.63	2.38	2.68	1.63
1397294	-0.49	-0.49	-1.38	-1.14	-1.07	-1.32	-1.77	-1.20	-1.32	0.26	-0.93	0.58	2.70	2.26	1.68
2844322	-1.77	-1.26	-2.00	-2.04	-2.14	-2.23	-2.58	-2.17	-1.93	-2.17	-2.00	-1.20	2.85	2.46	2.07
1481440	-1.14	-1.32	-1.07	-1.38	-0.85	-1.49	-1.43	-1.26	-1.00	-1.26	-0.49	-0.68	2.38	2.43	1.63
26459	-1.00	-1.00	-0.85	-0.85	-1.14	-1.20	-1.20	-0.93	-1.14	-0.77	-0.93	-0.85	2.17	2.23	0.68
1406786	-0.68	-0.58	-0.93	-1.38	-1.38	-1.26	-1.00	-0.85	-1.49	-1.14	-0.49	-1.14	2.07	1.72	0.93
1485846	-5.50	-5.53	-5.15	-5.17	-4.72	-5.57	-5.68	-5.44	-5.02	-5.42	-5.00	-4.87	3.02	2.54	2.23
2153242	-1.54	-1.68	-1.58	-1.72	-1.54	-2.14	-1.72	-2.00	-1.43	-1.81	-1.14	-0.77	2.89	2.51	1.14
2157981	-1.93	-1.85	-1.93	-1.81	-1.49	-0.38	-0.49	-0.26	-1.07	-2.38	-1.49	-1.43	3.09	2.32	0.85
3244361	-1.20	-1.07	0.68	1.38	0.85	-0.85	-1.26	-1.20	-0.58	-1.32	-1.07	-0.77	2.14	1.93	1.07

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1986737	-1.43	-1.26	-2.26	-1.63	-1.96	-1.07	-0.68	-0.93	-1.77	-0.85	-1.43	0.00	2.32	2.14	0.85
2506867	-2.93	-2.61	-2.85	-2.98	-3.23	-1.20	-1.07	-0.49	-2.49	-3.15	-3.05	-2.77	3.32	2.51	1.49
1211682	-1.81	-1.96	-1.07	-1.54	-1.26	-1.89	-2.35	-2.23	-2.46	-1.26	-1.85	-1.14	2.79	2.41	1.58
1416354	-0.93	-0.85	-1.38	-1.14	-1.26	-1.58	-1.32	-1.38	-1.26	-0.77	-0.49	-0.68	1.96	1.49	1.07
2963962	-1.26	-1.26	-1.07	-1.58	-1.00	-1.68	-1.77	-1.58	-1.07	-1.20	-1.14	-1.20	1.43	0.85	1.49
1761086	-1.93	-1.93	-1.58	-2.14	-1.72	-1.20	-1.38	-1.38	-1.81	-2.04	-1.81	-1.96	1.54	1.20	0.26
2588552	1.68	1.72	-0.77	-1.38	-1.00	-1.43	-1.26	-1.07	-0.58	-1.96	-0.93	-0.68	2.72	1.85	2.46
1901271	-0.85	-0.38	2.04	1.14	0.38	-0.14	0.38	0.00	-1.20	-0.38	0.14	0.14	1.63	1.49	1.07
1740924	-1.00	-0.93	1.43	1.14	1.38	-1.14	-0.85	-1.49	-0.58	-0.49	-0.68	-0.68	1.89	1.96	0.77
1480159	-1.54	-1.58	-1.26	-1.32	-1.26	-0.49	-0.26	-0.49	1.43	-1.49	-1.00	-0.38	2.17	2.00	0.77

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2380381	1.94	0.10	20.13	6.82E-08
1618422	2.04	0.07	27.49	5.37E-09
2672064	2.41	0.10	23.48	1.96E-08
608361	1.97	0.09	23.03	2.29E-08
1922596	4.97	0.19	25.77	9.14E-09
1850033	5.92	0.40	14.64	1.42E-06
986987	8.95	0.10	86.39	2.99E-13
718807	5.91	0.09	67.09	2.71E-12
2880435	1.47	0.06	24.37	1.45E-08
187326	10.19	0.13	79.62	6.10E-13
1997963	6.10	0.17	36.56	4.95E-10
467700	8.97	0.20	45.64	7.52E-11
57382	11.72	0.12	97.40	1.04E-13
1222442	4.12	0.17	23.82	1.74E-08
4013105	9.43	0.26	36.28	5.29E-10
924319	15.30	0.53	28.81	3.64E-09
1645119	3.78	0.11	34.35	8.37E-10
1379925	8.88	0.10	93.06	1.56E-13
1900961	6.90	0.17	40.30	2.17E-10
3506985	8.86	0.42	21.22	4.45E-08
551403	4.53	0.21	21.39	4.17E-08
3948420	7.12	0.19	36.73	4.76E-10
1722853	2.58	0.10	25.92	8.71E-09
1557490	4.82	0.15	33.20	1.11E-09
3208425	4.49	0.22	20.44	6.03E-08
1668474	5.40	0.08	67.90	2.44E-12
1622542	2.13	0.07	30.18	2.47E-09
4014318	3.14	0.15	20.97	4.89E-08
2394888	5.04	0.13	37.38	4.11E-10
1345550	14.73	0.19	76.01	9.14E-13
1719955	7.24	0.23	31.18	1.88E-09
2256026	2.96	0.11	26.92	6.38E-09
1538086	2.63	0.07	38.49	3.21E-10
958633	1.62	0.07	23.10	2.24E-08
2635943	10.60	0.16	66.67	2.86E-12
121888	11.84	0.13	88.75	2.36E-13
1627492	2.26	0.07	33.25	1.10E-09
4073867	2.26	0.11	21.01	4.82E-08
2190170	1.94	0.08	23.90	1.70E-08
972224	14.59	0.30	49.39	3.83E-11
1413644	4.89	0.24	20.10	6.90E-08
1538224	1.89	0.09	20.37	1.10E-07
2623268	2.63	0.12	21.59	3.87E-08
1665533	1.42	0.07	19.97	7.25E-08
981484	2.10	0.04	47.76	5.10E-11
973629	11.67	0.18	66.17	3.06E-12
1539638	1.56	0.04	35.82	5.89E-10
3015758	10.73	0.24	44.75	8.89E-11
2832314	4.17	0.14	30.35	2.36E-09
1702996	2.53	0.08	31.33	1.81E-09
839947	2.19	0.09	24.61	1.33E-08
1867522	17.51	0.28	61.87	5.47E-12
1987831	2.13	0.08	27.25	1.06E-08
2639708	9.66	0.07	137.49	4.99E-15
973815	11.77	0.23	51.52	2.66E-11
169884	11.47	0.12	96.95	2.14E-13
2638235	3.76	0.05	70.07	1.86E-12

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
305198	8.01	0.19	42.81	1.30E-10
57997	6.98	0.15	45.44	7.81E-11
986558	7.92	0.13	61.57	5.71E-12
224996	9.69	0.26	37.77	3.76E-10
661259	3.88	0.18	21.82	3.55E-08
3246379	4.92	0.18	26.85	6.53E-09
78783	4.25	0.24	17.54	3.57E-07
2639181	27.23	0.12	219.82	7.75E-17
1672467	11.44	0.15	77.23	7.96E-13
2950063	13.85	0.21	65.86	3.18E-12
3288518	22.52	0.19	119.44	1.73E-14
184110	20.44	0.53	38.26	3.37E-10
1368173	5.43	0.09	61.20	6.02E-12
1813409	4.65	0.19	24.90	1.21E-08
58309	17.08	0.14	121.53	1.49E-14
1721744	3.00	0.09	35.26	6.71E-10
1924344	7.76	0.17	45.89	7.18E-11
3176845	12.14	0.19	62.97	4.70E-12
2286809	8.52	0.25	34.50	8.07E-10
1985244	4.68	0.16	29.30	3.16E-09
1570042	3.22	0.12	27.83	4.85E-09
2079906	2.69	0.14	19.61	8.40E-08
2852042	5.26	0.24	21.94	3.40E-08
1319020	4.01	0.15	26.40	7.49E-09
1572555	7.76	0.23	34.07	8.98E-10
782235	6.11	0.42	14.43	1.58E-06
1314882	6.00	0.29	20.42	1.08E-07
1403636	3.69	0.15	24.94	1.20E-08
1968921	1.21	0.06	20.09	6.93E-08
1558081	3.17	0.15	20.86	5.12E-08
2495131	4.68	0.17	26.87	6.48E-09
4049957	9.52	0.39	24.32	1.47E-08
1686585	6.01	0.18	33.56	1.02E-09
2696735	8.26	0.23	36.41	5.12E-10
1720149	5.48	0.24	22.65	2.63E-08
1866751	8.79	0.28	31.47	1.74E-09
1851696	5.84	0.12	50.27	3.28E-11
93820	7.72	0.34	22.63	2.65E-08
2368282	0.10	0.06	1.69	1.63E-01
2831248	1.22	0.03	35.01	7.14E-10
182802	0.82	0.09	8.93	4.98E-05
1003884	2.80	0.10	27.91	4.74E-09
1120	0.99	0.04	24.45	1.41E-08
1308542	1.47	0.05	26.85	6.52E-09
3820761	6.10	0.25	24.89	1.22E-08
1999167	3.20	0.16	20.08	6.95E-08
1522716	4.89	0.22	21.84	3.53E-08
1612969	1.71	0.05	34.60	7.88E-10
337500	1.99	0.09	22.42	2.85E-08
1285380	1.08	0.05	23.71	1.81E-08
1636639	2.34	0.06	37.45	4.04E-10
1985870	1.91	0.08	23.67	1.83E-08
1677936	15.10	0.56	26.99	6.26E-09
910612	13.68	0.66	20.60	5.65E-08
2594407	14.00	0.62	22.42	2.85E-08
963536	7.29	0.14	51.69	2.59E-11
2252895	6.28	0.23	26.86	6.50E-09

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2804190	1.78	0.05	32.78	1.24E-09
1998428	7.92	0.08	93.61	1.48E-13
1800114	4.50	0.18	24.96	1.19E-08
1806769	6.28	0.19	33.07	1.15E-09
2474163	3.77	0.16	23.26	2.11E-08
1435374	7.49	0.28	26.56	7.12E-09
434377	3.63	0.17	21.28	4.35E-08
2121863	4.60	0.09	50.89	2.96E-11
1597231	4.47	0.13	35.24	1.27E-09
4174437	13.13	0.41	32.27	1.41E-09
2182901	13.23	0.39	33.98	9.18E-10
1747979	1.80	0.05	36.38	5.17E-10
1630553	4.76	0.11	41.76	1.60E-10
478960	2.02	0.06	33.56	1.02E-09
2132487	2.54	0.10	26.35	7.61E-09
2921152	9.32	0.12	76.38	8.76E-13
1846428	6.42	0.10	67.23	2.66E-12
2796143	3.39	0.10	32.61	1.30E-09
1805613	3.54	0.14	25.38	1.04E-08
1431273	6.39	0.12	53.05	2.07E-11
1804662	2.47	0.11	21.54	3.95E-08
2921194	4.16	0.06	71.14	1.63E-12
395368	7.68	0.16	47.72	5.14E-11
2182861	1.49	0.07	21.65	3.79E-08
1806436	2.67	0.08	33.51	1.93E-09
2922143	8.80	0.24	36.96	4.51E-10
1696001	3.19	0.10	33.34	1.08E-09
1635004	9.35	0.40	23.56	1.91E-08
2132752	8.31	0.35	24.01	1.63E-08
1734393	9.31	0.18	52.61	2.22E-11
4179338	23.18	0.38	60.49	6.66E-12
1427623	8.58	0.27	31.57	3.16E-09
3320987	8.40	0.23	35.93	5.74E-10
2239819	7.95	0.12	65.54	3.32E-12
876720	3.67	0.03	111.15	3.27E-14
1910091	1.78	0.05	37.15	4.32E-10
2174130	1.34	0.05	24.70	1.30E-08
2219077	1.77	0.10	17.69	3.33E-07
1965041	2.32	0.11	21.88	3.48E-08
1649959	4.06	0.08	48.69	4.32E-11
1222317	2.48	0.12	19.82	7.71E-08
2510171	5.01	0.33	15.39	9.76E-07
1988674	2.89	0.13	22.61	2.66E-08
1672640	3.40	0.17	20.16	6.71E-08
1749417	4.09	0.11	36.76	4.72E-10
1926543	1.80	0.06	28.63	3.83E-09
1504934	7.25	0.13	57.58	1.02E-11
2512879	6.33	0.10	61.41	5.84E-12
1359832	9.34	0.25	37.96	3.60E-10
1583076	6.62	0.15	45.58	7.60E-11
139838	9.81	0.11	91.36	1.83E-13
1344654	5.30	0.10	50.79	3.01E-11
2513979	11.65	0.18	64.60	3.77E-12
2369312	12.93	0.31	41.06	1.85E-10
2048364	11.94	0.24	50.57	3.12E-11
85246	15.28	0.19	80.75	5.39E-13
166337	6.51	0.18	36.47	5.06E-10

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
138274	2.89	0.06	50.18	3.34E-11
1633340	5.88	0.08	73.59	1.21E-12
1982416	4.23	0.10	43.11	1.22E-10
946822	0.84	0.04	23.67	1.83E-08
2517330	1.21	0.04	30.23	2.44E-09
2516489	3.69	0.08	48.89	4.17E-11
88741	6.33	0.16	39.74	2.45E-10
168865	7.32	0.11	69.05	2.11E-12
231779	2.11	0.03	65.83	3.20E-12
234123	2.35	0.05	45.40	7.87E-11
1833801	2.53	0.07	34.08	1.67E-09
1923613	3.53	0.08	43.51	1.13E-10
2058620	2.22	0.08	28.30	4.23E-09
1930954	2.94	0.10	28.90	6.55E-09
1511658	15.98	0.55	29.28	3.18E-09
2590673	5.18	0.10	53.53	1.91E-11
1995380	3.92	0.13	29.18	3.27E-09
167409	13.73	0.23	59.33	7.87E-12
1846226	2.37	0.05	43.87	1.05E-10
2052185	12.30	0.22	55.64	1.37E-11
2517389	6.16	0.09	68.31	2.32E-12
911015	4.29	0.11	39.90	2.36E-10
604856	3.92	0.60	6.50	3.91E-04
1448718	6.21	1.54	4.04	5.66E-03
2517268	6.93	0.10	68.50	2.26E-12
167134	7.22	0.12	60.59	6.57E-12
2843638	2.14	0.05	41.93	1.55E-10
1813269	9.85	0.34	29.17	3.29E-09
1861971	16.91	0.16	103.79	5.97E-14
2005973	4.25	0.21	19.94	7.33E-08
2515729	9.83	0.15	66.87	2.79E-12
2132356	4.65	0.08	56.22	2.42E-11
1001726	3.99	0.07	59.77	1.43E-11
2631845	6.14	1.08	5.70	8.59E-04
86390	4.78	0.24	20.25	6.48E-08
1287840	1.23	0.05	22.75	2.54E-08
2516905	3.22	0.09	35.40	6.50E-10
606122	3.70	0.18	20.77	5.29E-08
3553733	3.67	0.33	11.16	1.05E-05
1813381	9.36	0.21	43.66	1.10E-10
1988108	3.39	0.07	47.86	5.01E-11
1644648	5.80	0.16	36.83	4.65E-10
2516104	12.64	0.21	61.15	6.06E-12
2516448	5.80	0.14	40.95	1.89E-10
2514507	12.10	0.32	37.31	4.17E-10
1427470	3.80	0.09	43.37	1.16E-10
1311471	9.16	0.16	58.72	8.61E-12
195142	10.59	0.10	107.66	4.32E-14
29598	14.19	0.21	67.15	2.69E-12
1968576	4.52	0.10	46.73	6.15E-11
2959255	3.40	0.15	23.02	2.30E-08
446969	9.50	0.36	26.46	7.36E-09
1631511	8.27	0.15	56.65	1.17E-11
1508741	9.90	0.18	54.89	1.54E-11
2513602	8.11	0.16	49.65	3.66E-11
1981145	6.12	0.10	64.25	3.95E-12
2103752	3.95	0.07	54.70	1.59E-11

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2658782	9.83	0.26	37.29	7.89E-10
2099420	5.81	0.09	64.47	3.83E-12
637639	7.71	0.26	29.49	3.00E-09
279249	12.48	0.16	77.94	7.35E-13
1379063	6.24	0.20	30.82	2.08E-09
89747	11.71	0.16	75.19	1.01E-12
2515873	6.73	0.12	57.38	1.05E-11
1432372	4.27	0.11	40.13	2.25E-10
1633719	11.91	0.13	89.18	2.26E-13
1712663	4.84	0.14	35.46	6.41E-10
4285203	4.91	0.19	25.41	1.03E-08
1634342	2.22	0.09	24.38	1.44E-08
1418871	3.42	0.05	71.00	1.66E-12
3766382	1.81	0.09	19.98	7.22E-08
943181	3.56	0.10	34.37	8.34E-10
603761	5.67	0.35	16.30	6.27E-07
1297562	4.01	0.17	23.67	1.83E-08
2910715	3.39	0.12	27.78	4.92E-09
196975	1.26	0.05	23.77	3.21E-08
1453049	4.31	0.16	27.74	9.16E-09
1968695	2.01	0.07	30.29	2.40E-09
958344	10.67	0.11	100.25	8.10E-14
2820985	6.64	0.31	21.48	4.04E-08
1633393	2.80	0.04	62.93	4.73E-12
1806451	3.96	0.11	34.69	7.70E-10
2674772	9.66	0.15	64.17	3.99E-12
1376121	3.04	0.05	67.05	2.73E-12
831794	3.93	0.07	54.41	1.66E-11
1427681	8.17	0.15	52.87	2.13E-11
2912830	10.21	0.19	54.94	1.53E-11
504786	6.84	0.14	49.12	4.00E-11
254081	7.89	0.09	91.66	1.78E-13
1330674	7.28	0.27	27.09	6.06E-09
2377834	10.49	0.08	132.69	6.83E-15
2075464	7.13	0.12	61.36	5.89E-12
2383235	8.80	0.14	61.55	5.73E-12
1285503	1.07	0.16	6.72	3.18E-04
2383205	8.56	0.08	103.23	6.26E-14
2015871	0.76	0.28	2.71	3.41E-02
2374046	0.25	0.12	2.16	7.91E-02
1709828	1.54	0.06	25.45	1.01E-08
2061119	1.48	0.07	20.21	6.58E-08
3665105	5.13	0.15	34.78	7.55E-10
2068983	6.01	0.12	49.04	4.06E-11
2242648	4.90	0.12	41.17	1.81E-10
885032	4.17	0.15	27.40	5.52E-09
2383830	9.62	0.36	26.48	7.32E-09
2085191	10.37	0.09	119.16	1.77E-14
2792982	9.77	0.31	31.68	1.65E-09
179929	5.42	0.18	30.27	2.41E-09
2741788	2.88	0.05	53.93	1.79E-11
2373608	7.06	0.22	31.40	1.78E-09
2182095	13.19	0.26	51.25	2.78E-11
2923150	17.49	0.34	50.73	3.04E-11
293495	6.68	0.78	8.52	6.83E-05
4284270	5.92	0.18	33.45	1.05E-09
958923	2.30	0.14	16.98	4.57E-07

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
1921393	9.15	0.21	43.78	1.07E-10
1447866	1.52	0.07	21.82	3.56E-08
1666737	2.87	0.14	20.22	6.57E-08
586245	4.67	0.28	16.50	5.71E-07
194162	8.72	0.49	17.90	3.04E-07
243123	4.13	0.14	28.53	3.95E-09
382416	5.66	0.44	12.79	3.89E-06
1852659	4.73	0.19	24.47	1.40E-08
3220181	1.78	0.09	20.77	5.30E-08
1726307	2.30	0.05	45.27	8.05E-11
1904244	1.49	0.09	16.95	4.65E-07
2039955	3.05	0.11	27.19	5.87E-09
2675641	2.23	0.12	19.34	9.39E-08
1412749	2.58	0.06	42.61	1.35E-10
1963854	1.85	0.09	21.03	4.80E-08
2949085	1.39	0.07	20.01	7.15E-08
2963196	4.17	0.14	29.26	3.20E-09
1505977	4.36	0.20	22.00	3.33E-08
1674985	1.33	0.04	31.95	1.54E-09
2109054	2.60	0.12	20.99	4.87E-08
3317039	2.16	0.07	30.17	2.48E-09
2838551	1.00	0.05	19.36	9.30E-08
1477568	3.38	0.17	19.47	8.88E-08
2963871	1.59	0.04	40.44	2.11E-10
1740547	3.18	0.02	133.38	6.53E-15
2292011	5.13	0.49	10.51	1.60E-05
1349484	1.28	0.05	26.46	1.35E-08
1674253	1.65	0.06	28.15	4.41E-09
1932189	5.13	0.24	21.07	4.71E-08
1403041	3.36	0.35	9.69	2.84E-05
1486358	3.26	0.11	29.08	3.37E-09
1439065	1.19	0.05	21.71	6.66E-08
530629	2.83	0.19	14.94	1.22E-06
1672676	4.19	0.08	50.44	3.19E-11
1989129	3.08	0.14	21.69	3.73E-08
1486348	4.85	0.12	40.19	2.22E-10
1397294	3.23	0.18	18.26	2.60E-07
2844322	4.50	0.10	46.79	6.08E-11
1481440	2.69	0.13	20.45	6.01E-08
26459	2.26	0.11	20.02	7.11E-08
1406786	1.74	0.09	20.45	6.01E-08
1485846	13.79	0.09	155.44	1.68E-15
2153242	3.68	0.15	24.68	1.30E-08
2157981	4.43	0.28	15.59	8.82E-07
3244361	2.35	0.09	26.64	6.95E-09
1986737	3.57	0.20	17.42	3.76E-07
2506867	6.38	0.29	21.92	3.42E-08
1211682	5.24	0.10	54.00	1.77E-11
1416354	3.06	0.13	24.40	1.43E-08
2963962	2.75	0.08	34.00	9.13E-10
1761086	3.61	0.09	40.13	2.25E-10
2588552	4.95	0.23	21.57	3.91E-08
1901271	3.46	0.16	22.22	3.07E-08
1740924	2.32	0.08	27.25	5.77E-09
1480159	3.06	0.12	24.71	1.29E-08

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
2380381	1.65	0.20	-0.89	-0.30	-0.30	0.12	-0.77	0.85	0.83	-0.92	-0.84	-0.84	Heart			
1618422	1.52	-1.16	0.93	0.04	-0.17	0.70	0.17	-1.08	-1.13	-0.18	0.05	0.48	Heart			
2672064	2.10	-0.40	0.69	-0.74	-0.08	-0.44	0.40	-1.42	0.24	-1.66	-0.49	0.40	Heart			
608361	1.98	0.20	0.65	-0.87	0.32	-0.02	-0.06	-0.51	-1.07	0.82	-0.15	-1.00	Heart			
1922596	1.91	1.44	-1.81	-1.69	-0.60	-0.68	-1.61	1.42	0.77	-1.35	-1.47	0.83	Heart			
1850033	3.78	0.67	0.02	-0.40	-0.12	-0.31	-0.67	-0.95	-0.87	-0.47	-0.56	-0.73	Heart			
986987	5.33	0.26	-0.34	-0.64	-0.41	-0.70	-0.54	-0.81	-0.95	-0.75	-0.56	-1.07	Heart			
718807	3.97	-0.17	-0.83	-0.31	-0.45	-0.62	-0.50	-0.83	-1.35	0.24	-0.82	1.20	Heart			
2880435	2.07	-0.58	0.23	-0.49	-0.34	-0.16	-0.31	-0.55	-0.04	-0.49	-0.18	0.14	Heart			
187326	5.39	1.41	-0.40	-0.66	-0.69	-0.88	-0.77	-0.78	-1.37	-0.50	-0.82	-1.07	Heart			
1997963	2.95	2.64	-0.95	-0.90	-0.41	-0.48	-0.93	-1.25	0.31	-0.95	-1.64	-0.07	Heart	Sk Muscle		
467700	4.14	2.42	0.61	-1.24	0.49	-0.07	-1.16	-1.32	-1.39	-0.97	-1.06	-1.56	Heart	Sk Muscle		
57382	4.06	3.92	-0.77	-0.88	-0.29	-0.63	-1.72	-1.75	-0.46	-1.55	-1.72	-0.17	Heart	Sk Muscle		
1222442	2.19	1.68	-1.66	-1.60	-0.29	-0.13	-1.52	0.27	0.90	-1.02	-1.06	-0.16	Heart	Sk Muscle		
4013105	4.01	2.66	0.37	-0.76	-1.22	-1.77	-1.43	-1.92	0.39	-1.66	-0.50	-0.07	Heart	Sk Muscle		
924319	5.61	3.10	-0.95	-0.92	-1.24	-1.38	0.98	-1.30	-1.73	-1.16	-1.26	-1.87	Heart	Sk Muscle		
1645119	2.75	1.84	-0.69	-0.66	-0.80	-0.51	-0.84	-0.30	-0.46	-0.59	-0.65	-0.42	Heart	Sk Muscle		
1379925	3.79	3.38	-0.81	-1.08	-0.95	-1.21	-1.08	-0.90	-0.79	-1.19	-0.46	-0.78	Heart	Sk Muscle	Uterus	
1900961	3.18	2.30	1.54	-0.62	-0.28	0.35	-1.44	-1.16	-0.96	-1.05	-1.24	-1.33	Heart	Sk Muscle	Spleen	
3506985	2.79	2.50	-1.72	-2.06	-0.44	0.21	0.37	-1.24	-1.79	-1.64	2.04	-2.23	Heart	Uterus		
551403	1.78	1.40	1.66	-0.15	0.50	-1.20	-1.18	-1.21	-1.16	0.17	-1.32	1.45	Heart	Uterus	Brain	Sk Muscle
3948420	2.03	1.78	1.93	0.00	0.87	-1.17	-1.05	-2.16	-1.31	0.19	-1.90	1.84	Heart	Ovary		
1722853	2.41	-0.27	-0.48	1.86	0.26	-0.55	-0.14	-0.54	0.03	-0.94	-1.14	0.03	Heart	Brain		
1557490	2.70	-0.60	0.95	-0.84	-0.11	-1.18	-0.74	-1.75	-0.25	-1.04	-0.07	1.94	Heart	Brain		
3208425	1.31	2.87	-0.39	-0.70	-0.34	-0.05	-0.86	-1.59	0.11	-1.26	-1.36	0.69	Sk Muscle			
1668474	1.37	3.73	-0.50	-0.36	-0.22	-0.86	-0.84	-0.87	-1.10	-0.42	-0.51	-0.18	Sk Muscle			
1622542	-0.24	2.06	-0.66	-0.66	-0.34	0.05	-0.68	-0.79	-0.66	-0.43	0.09	1.19	Sk Muscle			
4014318	-0.24	3.10	0.17	0.10	-0.16	-0.35	-0.41	-0.43	-0.66	-0.16	-0.05	-0.96	Sk Muscle			
2394888	-1.00	3.41	-0.90	-0.84	-1.11	-1.14	-0.12	0.02	0.46	-1.39	-0.77	1.23	Sk Muscle			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
1345550	-0.59	6.89	0.09	-0.84	-0.69	-0.92	-0.35	-0.84	-1.39	-1.15	-0.62	-1.12	Sk Muscle			
1719955	1.25	4.16	-1.39	-1.25	-1.08	-1.21	-0.40	-0.09	0.16	-1.84	-1.49	0.30	Sk Muscle			
2256026	0.01	3.03	0.13	-0.10	-0.46	-0.37	-0.48	-0.32	-0.75	0.13	-0.27	-0.64	Sk Muscle			
1538086	0.13	2.04	-0.91	-0.74	-0.65	-0.73	-1.04	1.46	0.17	0.26	-0.81	-0.01	Sk Muscle			
958633	0.99	1.57	0.44	0.74	-0.61	-0.63	-0.53	-0.77	0.06	0.30	-0.77	-0.16	Sk Muscle			
2635943	0.59	5.72	-0.26	-0.76	-0.34	-0.47	-1.10	-0.92	-1.21	-1.32	-0.94	-0.57	Sk Muscle			
121888	1.23	5.92	-0.61	-0.55	-0.43	-1.24	-0.92	-0.72	-1.13	-0.90	-0.96	-0.99	Sk Muscle			
1627492	0.30	2.40	0.10	0.85	-0.41	-0.15	-0.69	-0.90	-0.11	-0.83	-0.73	0.08	Sk Muscle			
4073867	0.35	1.62	-0.56	-0.18	-0.45	-0.18	-1.16	1.37	0.61	-0.67	-0.73	-0.92	Sk Muscle			
2190170	0.20	2.24	0.39	0.43	-0.31	-0.25	-0.28	-1.05	-0.29	-1.01	-0.44	0.01	Sk Muscle			
972224	0.44	6.70	0.13	-0.38	-0.09	-0.68	-0.89	-1.14	-1.21	-1.45	-1.08	-1.56	Sk Muscle			
1413644	0.61	3.15	0.36	-0.74	-0.26	-0.14	-1.19	-1.37	-0.85	-1.26	-0.96	1.36	Sk Muscle			
1538224	1.11	1.71	-0.07	-0.33	-0.82	-0.61	0.06	-0.11	-0.11	-0.65	-0.70	-0.44	Sk Muscle			
2623268	0.14	2.07	0.97	0.23	0.65	-0.15	-0.61	-1.52	-0.23	-1.65	-0.74	0.44	Sk Muscle			
1665533	0.46	1.93	-0.12	-0.24	-0.46	-0.41	0.02	-0.83	0.02	-0.47	-0.14	-0.41	Sk Muscle			
981484	-0.04	2.58	-0.54	-0.60	-0.05	-0.33	-0.40	-0.41	-0.49	-0.10	-0.28	0.00	Sk Muscle			
973629	0.70	6.01	-0.53	-0.77	-0.35	-0.67	-1.03	-1.15	-1.02	-1.01	-0.55	-1.09	Sk Muscle			
1539638	-0.34	1.69	0.64	0.51	0.05	0.28	-0.04	-1.22	0.04	-1.21	-0.58	-0.06	Sk Muscle			
3015758	0.08	5.84	-0.58	-0.53	-0.48	-0.99	-0.83	-0.67	-1.21	0.29	-0.45	-0.98	Sk Muscle			
2832314	0.76	1.81	0.00	-0.19	-0.19	-0.23	-0.02	-2.79	0.85	-2.07	-0.55	1.05	Sk Muscle			
1702996	0.08	2.32	1.21	-0.20	0.46	-0.04	-0.39	-1.14	-0.50	-0.64	-0.92	-0.25	Sk Muscle			
839947	-0.11	2.43	-1.06	-1.33	-0.14	-0.37	-0.19	-0.25	-0.44	-0.37	-0.19	0.48	Sk Muscle			
1867522	0.02	7.47	-1.55	-1.81	-0.56	-1.54	-0.75	-0.41	-0.97	-1.23	-0.73	-0.67	Sk Muscle			
1987831	0.25	1.63	0.00 x	-0.32	-0.37	-0.37	-0.50	-1.00	-0.76 x	-0.28	-0.28	1.24	Sk Muscle			
2639708	0.36	5.54	-0.42	-0.82	-0.66	-0.56	-0.83	-0.92	-1.06	-0.53	-0.56	-0.79	Sk Muscle			
973815	0.84	5.96	-0.04	-0.41	-0.44	-0.88	-0.80	-1.33	-1.43	-0.90	-0.80	-0.80	Sk Muscle			
169884	2.50	4.51	-1.30 x	-0.70	-0.70	-0.90	-1.18	-0.81	-1.64 x	-0.79	-0.79	-0.38	Sk Muscle	Heart		
2638235	2.16	2.34	-0.60	-0.88	0.18	-0.67	0.02	-0.69	-0.48	-0.49	-0.92	-1.02	Sk Muscle	Heart		

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain			
305198	3.03	3.74	-0.67	-1.25	-0.33	-0.91	-0.81	-0.94	-1.29	-0.71	-0.83	-0.67	Sk Muscle	Heart	
57997	1.82	4.08	-0.15	-0.67	0.29	-0.88	-1.08	-0.88	-0.96	-0.27	-0.80	-1.08	Sk Muscle	Heart	
986558	3.20	3.44	-0.10	-0.43	-0.21	-0.71	-1.21	-1.40	-0.84	-1.21	-1.23	-0.50	Sk Muscle	Heart	
224996	1.53	4.47	1.46	-0.90	0.54	-0.03	-0.35	-1.98	-1.88	-1.95	-1.36	-0.79	Sk Muscle	Heart	
661259	1.60	1.81	-0.74	-1.14	-0.35	-0.84	-1.33	1.29	0.57	-1.71	-1.45	0.03	Sk Muscle	Heart	
3246379	1.70	3.14	-0.33	-0.97	-0.50	-0.65	-0.87	-1.07	-0.99	-1.10	-0.72	0.71	Sk Muscle	Heart	
78783	1.54	2.12	0.11	-0.01	0.37	-0.10	0.32	-1.63	-0.15	-1.48	-0.19	-1.74	Sk Muscle	Heart	
2639181	5.65	6.89	-1.34	-1.35	-1.79	-1.28	-1.66	-1.50	-1.99	-1.38	-1.14	-1.97	Sk Muscle	Heart	
1672467	3.49	4.45	-0.15	-1.23	-0.83	-0.95	-1.54	-0.15	-1.51	-0.47	-1.33	-1.24	Sk Muscle	Heart	
2950063	3.16	5.44	-0.22	-0.26	-0.51	-1.63	-0.90	-0.76	-1.76	-0.92	-1.16	-1.50	Sk Muscle	Heart	
3288518	2.63	7.79	-0.41	-0.89	-1.04	-1.89	-1.12	-1.46	-1.24	-1.58	-1.02	-1.90	Sk Muscle	Heart	
184110	4.64	6.08	-1.14	-1.40	-0.42	-1.46	-0.88	-1.08	-2.10	-1.61	-1.08	-2.07	Sk Muscle	Heart	
1368173	1.89	3.01	-0.19	0.11	-0.63	-0.64	-0.91	-1.79	0.12	-1.53	-1.20	0.55	Sk Muscle	Heart	
1813409	1.60	2.68	-0.93	-1.60	0.42	-0.45	-1.21	-0.64	1.07	0.10	-1.32	-0.89	Sk Muscle	Heart	
58309	4.05	5.75	-1.98	-1.99	-0.46	-1.25	-1.29	-0.93	-0.92	-1.29	-1.32	-1.37	Sk Muscle	Heart	
1721744	1.83	1.95	0.38	-0.19	-0.45	-0.66	-0.71	-0.56	-0.86	0.45	-1.23	0.20	Sk Muscle	Heart	
1924344	0.70	4.20	1.63	-0.30	0.40	0.16	-1.00	-1.16	-1.79	-1.41	-0.50	-1.39	Sk Muscle	Uterus	
3176845	0.92	4.37	3.13	1.01	1.00	0.65	-1.00	-2.44	-1.51	-2.31	-1.45	-1.86	Sk Muscle	Uterus	
2286809	1.31	3.52	-1.62	-1.36	-0.75	-0.60	-2.37	0.81	1.69	-1.36	-2.06	0.19	Sk Muscle	Kidney	
1985244	0.70	3.13	-0.61	-0.07	-0.79	-0.52	-0.92	0.70	-0.16	1.73	-1.64	-0.93	Sk Muscle	Pancreas	
1570042	0.42	2.41	-0.39	-0.57	-0.66	-0.90	-0.81	-0.61	-0.89	-0.50	-0.16	1.61	Sk Muscle	Brain	
2079906	-0.86	-0.62	2.72	1.19	0.56	1.24	0.02	-0.55	-0.47	-1.40	-0.34	-0.55	Uterus		
2852042	-1.06	-1.16	3.56	0.89	1.43	1.17	0.06	-1.84	-0.72	-1.09	-0.57	0.86	Uterus		
1319020	1.84	0.73	2.47	1.35	0.13	-0.22	-0.28	-1.91	-0.15	-1.51	-1.05	-0.65	Uterus	Heart	
1572555	1.86	1.72	2.67	0.89	0.98	1.57	-0.79	-2.58	-0.92	-1.14	-1.30	-1.91	Uterus	Heart	Sk Muscle
782235	-0.33	-0.47	4.14	2.86	0.71	0.25	0.87	-1.33	-0.49	-1.20	-0.50	-1.77	Uterus	Heart	Intestine
1314882	0.56	0.23	3.44	2.53	0.63	0.64	0.88	-1.73	-0.91	-1.39	-0.80	-1.95	Uterus	Ovary	
1403636	-0.25	0.94	2.31	2.07	0.74	0.56	0.00	-1.93	-1.36	-1.75	-0.46	0.35	Uterus	Ovary	

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	Uterus	Ovary	Sk Muscle	Intestine
1968921	0.01	-0.21	1.86	1.57	0.08	0.19	-0.26	-0.81	-0.09	-0.74	0.14	-0.54	Uterus	Ovary		
1558081	0.59	0.19	2.44	1.74	0.66	0.26	0.55	-1.56	-0.11	-1.01	-0.71	-1.52	Uterus	Ovary		
2495131	0.58	1.51	2.74	2.30	0.11	0.08	0.45	-1.62	-1.36	-2.38	-0.87	-0.64	Uterus	Ovary	Sk Muscle	
4049957	-0.58	-0.62	4.73	2.60	1.88	1.84	0.24	-2.47	-0.57	-2.17	-0.76	-1.63	Uterus	Ovary	Stomach	Intestine
1686585	-0.02	1.11	2.99	2.81	0.94	-0.10	-1.37	-2.09	1.54	-1.33	-1.27	-0.90	Uterus	Ovary	Kidney	
2696735	0.30	-0.61	4.57	0.80	2.40	1.91	-1.06	-1.57	-1.14	-1.02	-1.03	-1.37	Uterus	Stomach	Intestine	
1720149	-1.28	-1.13	3.60	1.31	1.48	1.87	-0.03	-0.93	-0.33	-1.69	-0.53	-0.91	Uterus	Intestine	Intestine	
1866751	-0.77	-0.09	4.21	0.72	2.33	2.66	-0.55	-1.78	-1.11	-1.54	-0.75	-1.70	Uterus	Intestine	Stomach	
1851696	0.88	-0.24	2.62	1.21	0.91	1.36	1.71	-1.29	-1.08	-1.86	-2.05	-1.41	Uterus	Lung		
93820	-0.71	-0.63	3.62	-0.24	-0.98	-0.88	-1.47	-1.08	1.31	-1.07	-1.11	3.25	Uterus	Brain		
2368282	-0.17	0.06	-0.02	4.25	0.01	-0.19	-0.21	-0.12	-0.47	0.02	0.09	-0.41	Ovary			
2831248	-0.15	-0.19	1.08	2.34	0.17	-0.15	0.35	-1.02	0.19	0.12	0.07	-0.76	Ovary			
182802	-0.14	0.11	-0.44	4.23	0.41	1.07	-0.55	-0.32	-0.32	-0.15	-0.72	-0.46	Ovary			
1003884	0.53	-0.54	1.46	1.72	0.23	0.36	0.79	-1.48	1.00	-0.77	-0.36	-1.73	Ovary			
1120	-0.29	0.20	0.65	2.02	-0.07	-0.21	-0.17	-0.43	0.16	1.22	0.27	-1.00	Ovary			
1308542	1.52	-0.36	-0.69	1.55	0.54	-0.35	-0.37	0.46	-0.67	0.90	-0.41	-0.53	Ovary	Heart		
3820761	1.30	0.65	2.23	2.98	0.57	0.49	0.70	-1.45	0.35	-1.14	-2.57	-1.94	Ovary	Uterus		
1999167	0.22	-1.37	1.62	1.66	0.34	0.15	-0.09	1.02	1.13	-1.40	-0.50	-1.94	Ovary	Uterus		
1522716	0.17	0.12	2.47	3.45	0.55	0.14	0.67	-2.58	-0.51	-1.39	0.48	-1.19	Ovary	Uterus		
1612969	0.08	-0.20	0.68	3.45	-0.22	-0.51	-0.54	-0.30	-0.32	1.82	-0.24	-0.05	Ovary	Pancreas		
337500	-1.02	-1.21	1.12	2.43	0.43	0.18	-0.10	-0.22	0.34	1.62	0.42	-0.77	Ovary	Pancreas		
1285380	-0.14	-0.45	-0.35	-0.62	2.14	-0.17	0.32	-0.41	-0.22	-0.25	0.31	-0.14	Stomach			
1636639	0.88	-0.51	0.87	-0.52	2.13	0.64	0.07	-0.88	-1.14	1.29	-0.67	-0.66	Stomach			
1985870	-0.45	-0.60	-0.43	-0.58	1.92	0.73	0.58	-0.68	-0.83	-0.75	1.15	-0.45	Stomach			
1677936	-0.85	-0.24	-0.52	-0.58	8.48	0.86	-0.74	-0.72	-1.47	-0.51	-0.32	-1.46	Stomach			
910612	-0.22	0.01	-0.41	-0.27	8.04	0.79	-0.76	-1.18	-1.37	-0.76	-0.67	-1.33	Stomach			
2594407	-1.02	-0.40	-0.99	-1.22	8.00	0.52	1.10	-1.00	-0.98	-0.95	-0.79	-1.38	Stomach			
963536	-0.15	-0.04	-0.54	-0.74	5.80	0.89	-0.64	-0.57	-1.05	-0.69	-0.61	-0.86	Stomach			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
2252895	-0.27	0.21	-0.77	-0.93	4.13	2.64	-0.95	-0.99	-0.64	-0.75	-0.72	-0.94	Stomach	Intestine		
2804190	-0.39	-0.33	-0.36	-0.26	2.01	1.57	-0.07	-0.69	-0.60	-0.46	-0.04	-0.32	Stomach	Intestine		
1998428	-1.03	-0.23	-0.85	-0.77	4.74	2.37	1.08	-0.82	-1.01	-0.20	-0.92	-1.70	Stomach	Intestine		
1800114	-1.28	-0.93	-0.94	-1.09	2.37	2.34	0.79	-0.70	1.01	-1.09	-0.41	-1.05	Stomach	Intestine		
1806769	-0.94	-0.15	-0.80	-0.59	3.14	2.27	2.06	-0.91	-0.96	0.18	-1.33	-1.45	Stomach	Intestine	Lung	
2474163	-0.62	0.16	-1.40	-1.02	2.85	-1.12	-0.49	0.44	1.65	-0.33	-1.20	0.67	Stomach	Kidney		
1435374	-1.67	-1.61	-1.56	-0.58	2.16	1.78	1.35	1.62	1.25	1.83	-1.16	-2.36	Stomach	Pancreas		Liver
434377	0.10	0.13	0.04	-0.71	-0.81	2.29	1.24	-0.86	-1.03	-1.43	0.94	-1.59	Intestine			
2121863	-0.05	0.06	1.20	-0.05	1.20	2.51	0.88	-1.69	-0.39	-1.93	-0.40	-1.85	Intestine			
1597231	1.33	0.66	-1.34 x		-0.57	1.71	-1.23	1.43	-1.18 x		-1.38	-0.08	Intestine			
4174437	-0.99	-0.03	-0.66	-0.58	0.09	6.41	-0.38	-0.99	-1.54	-1.25	-0.22	-1.27	Intestine			
2182901	-0.75	0.32	-0.21	-0.72	-0.06	6.43	-0.72	-0.99	-1.49	-1.22	-0.72	-1.26	Intestine			
1747979	-0.87	-0.68	0.13	-0.34	0.36	1.62	-0.16	-0.69	-0.63	-0.34	1.30	0.02	Intestine			
1630553	-0.37	-0.17	-0.12	-1.19	-0.64	3.81	0.37	-0.79	-0.41	-0.49	-0.87	-0.51	Intestine			
478960	-0.60	-0.21	-0.65	-0.83	0.72	1.91	0.16	-0.58	0.73	1.08	-0.60	-0.94	Intestine			
2132487	-0.40	0.07	-0.72	-0.81	0.25	2.68	-0.35	-0.03	-0.87	0.78	-0.35	-0.40	Intestine			
2921152	-0.42	-0.07	-0.85	-0.71	-0.15	5.47	-0.61	-0.68	-1.00	-0.81	-1.03	-0.48	Intestine			
1846428	-1.05	0.55	-0.20	-0.37	-0.83	4.38	-0.38	-0.08	-0.52	-0.32	-0.93	-1.05	Intestine			
2796143	-0.68	-1.30	-1.58	-0.15	0.81	1.58	1.05	-1.55	1.36	0.91	-0.26	0.06	Intestine			
1805613	-0.59	0.35	-0.38	-0.42	0.01	3.29	-0.32	-0.42	-0.90	-0.50	-0.34	-0.51	Intestine			
1431273	-0.26	-0.20	-0.81	-0.69	0.00	4.52	-0.51	-0.74	-0.97	-0.09	-0.44	-0.59	Intestine			
1804662	-0.24	-0.36	-0.81	-0.68	-0.19	2.23	-0.94	1.11	0.51	-0.38	-0.66	-0.63	Intestine			
2921194	0.25	-0.38	1.06	1.27	1.00	2.36	0.74	-1.91	-0.25	-1.42	-0.70	-1.45	Intestine			
395368	-1.25	-0.59	-1.08	-0.91	0.01	4.57	-0.26	-0.95	1.19	-0.82	-0.14	-1.28	Intestine			
2182861	-0.11	0.17	-0.19	-0.25	-0.24	2.15	-0.52	-0.18	-0.31	-0.13	-0.27	-0.51	Intestine			
1806436	-0.44	-0.77	-0.19 x		-0.74	2.24	-0.94	0.60	0.60 x		-0.43	-0.24	Intestine			
2922143	-0.27	-0.56	-1.19	-1.48	0.57	5.23	-0.85	-0.43	-0.99	-0.80	-0.72	-0.23	Intestine			
1696001	-0.18	-0.63	-0.91	-1.24	-0.11	3.01	-0.75	0.09	0.41	0.15	-0.40	-0.51	Intestine			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
1635004	-1.17	-0.42	-1.16	-0.93	2.81	4.64	-0.85	0.03	-1.58	0.01	-0.20	-1.23	Intestine	Stomach		
2132752	-1.41	-0.38	-0.65	-0.11	3.20	4.19	-0.36	-1.12	-0.55	-0.62	-0.60	-1.22	Intestine	Stomach		
1734393	-0.90	-0.40	-1.03	-0.46	3.07	4.66	-0.97	-0.75	-1.25	0.05	-0.88	-0.74	Intestine	Stomach		
4179338	-0.66	-1.35	-2.01	-2.02	-0.67	5.83	-1.52	5.72	-1.81	-1.66	-1.65	-1.55	Intestine	Liver		
1427623	-0.78	-0.68	-0.96 x		-0.38	3.63	-1.29	2.56	-0.33 x		-1.11	-1.11	Intestine	Liver		
3320987	-0.84	-0.75	0.84	-1.27	-1.16	3.89	-1.23	-0.15	2.47	-1.62	-0.22	-1.99	Intestine	Kidney		
2239819	-0.98	-0.11	-1.12	-1.14	-0.85	3.63	-1.12	-0.88	2.68	2.13	-1.02	-1.21	Intestine	Kidney		
876720	-0.41	-0.37	-0.42	-0.58	-0.57	-0.44	3.45	-0.26	-0.50	-0.42	0.01	-0.49	Lung			
1910091	-0.31	-0.05	-0.23	-0.64	-0.47	-0.31	2.13	-0.60	-0.47	-0.28	-0.43	0.81	Lung			
2174130	-0.54	-0.18	-0.05	0.96	0.69	0.19	1.53	-0.72	-0.44	-0.67	0.40	-0.76	Lung			
2219077	0.35	-0.33	-0.02	0.05	-0.32	-0.42	2.07	-0.17	-0.36	-0.44	-0.16	-0.62	Lung			
1965041	0.63	0.06	0.31	-0.75	-0.84	-1.16	1.83	-0.93	0.76	-0.75	0.54	-0.88	Lung			
1649959	-0.98	-0.10	-0.62	-0.99	0.86	0.64	2.91	-0.32	0.71	-0.38	-1.27	-1.30	Lung			
1222317	0.01	-0.03	0.56	-0.98	0.16	0.13	2.15	-1.40	-0.21	-0.91	0.61	-1.11	Lung			
2510171	-0.48	-0.41	-1.08	-1.20	0.71	-0.67	3.38	0.43	0.16	-0.20	-0.94	-0.74	Lung			
1988674	-0.75	-0.48	-0.40	-0.64	-0.16	0.02	2.93	-0.47	-0.67	-0.51	0.42	-0.25	Lung			
1672640	1.48	0.55	1.07	0.52	-0.27	-0.50	1.62	-1.65	-1.31	-1.22	0.51	-1.00	Lung			
1749417	-1.09	-1.44	-0.37	-0.36	0.29	-0.28	2.35	-0.21	2.23	-0.89	-0.37	-0.72	Lung			
1926543	-0.06	-0.67	-0.86	-0.64	-0.25	-0.01	-0.41	2.06	0.89	-0.32	-0.37	-0.37	Liver	Kidney		
1504934	-0.39	0.09	-0.47	-0.20	-0.82	-0.85	-0.90	4.76	0.13	-0.53	-0.75	-0.99	Liver			
2512879	-0.69	-0.39	-0.31	-0.51	0.76	0.37	0.99	3.69	-0.67	-1.60	-0.49	-2.40	Liver			
1359832	-0.16	-0.67	0.00	-0.27	0.65	0.47	1.33	4.09	-0.31	-1.78	-0.93	-3.57	Liver			
1583076	-0.46	-0.73	-0.49	-0.69	1.12	0.66	0.83	3.73	-0.60	-1.46	-0.74	-2.40	Liver			
139838	-0.37	-0.49	-1.25	-0.60	-0.40	-0.70	-0.61	5.66	-0.76	-0.52	-0.51	-0.75	Liver			
1344654	-0.71	-0.46	-0.67	-0.71	-0.83	-0.70	-0.25	3.71	1.41	-0.51	-0.58	-1.02	Liver			
2513979	-0.73	0.06	-0.56	-0.32	-0.56	-1.00	-0.56	6.13	-0.83	-0.91	-0.90	-1.02	Liver			
2369312	-1.30	-0.46	-0.91	0.66	-1.07	-1.77	0.95	5.81	-1.91	-1.74	1.06	-0.70	Liver			
2048364	-0.83	-0.10	-1.45	-1.20	-1.00	-0.63	-0.30	6.12	-0.95	-0.93	-1.18	0.20	Liver			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth	
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain					
85246	-0.90	-0.33	-1.05	-0.65	-0.54	-1.19	-0.63	7.05	-0.41	-0.51	-0.92	-1.21	Liver				
166337	-0.77	-0.06	-0.10	-0.24	-0.13	-0.48	-0.26	4.48	-1.20	-0.24	-0.25	-1.16	Liver				
138274	-0.27	0.08	-0.38	-0.46	-0.38	-0.40	-0.34	3.03	-0.75	-0.29	-0.24	-0.35	Liver				
1633340	-0.23	-0.59	-0.87	-0.87	-0.40	1.41	-0.99	3.94	-0.90	-0.54	-0.62	-0.69	Liver				
1982416	0.14	-0.76	-1.22	-1.27	-0.21	-0.35	-0.48	3.52	-0.68	-0.22	0.28	-0.22	Liver				
946822	0.16	0.07	-0.09	0.42	-0.27	0.02	-0.39	1.50	-0.21	-0.33	-0.48	-0.46	Liver				
2517330	-0.01	-0.50	-0.73	-0.81	-0.22	0.21	-0.23	1.82	-0.38	0.17	-0.15	0.08	Liver				
2516489	-0.40	-0.39	-0.68	-0.78	-0.68	-0.59	-0.35	3.26	0.82	-0.25	-0.59	-0.53	Liver				
88741	-0.13	-0.06	-0.60	-0.21	-0.79	-0.73	-0.42	4.50	-0.86	-0.21	-0.65	-0.59	Liver				
168865	-0.27	-0.69	-1.16	-1.21	0.52	0.30	-0.67	4.70	-1.02	-0.64	-0.54	-0.78	Liver				
231779	-0.54	-0.69	-0.45	-0.38	0.01	0.56	-0.51	2.40	-0.26	-0.61	0.13	-0.48	Liver				
234123	0.31	-0.76	-1.03	-0.81	-0.44	0.52	-0.73	1.76	1.41	0.26	-0.83	-0.52	Liver				
1833801	-0.31	0.15	-0.66 x	-0.19	0.46	-0.70	2.06	0.74 x		-1.03	-0.80		Liver				
1923613	-0.15	0.15	-1.03	-0.29	-0.46	-1.05	-0.07	2.86	1.15	-0.95	-0.90	-0.57	Liver				
2058620	0.70	0.54	-0.52	0.01	-0.61	-0.42	-0.81	1.67	1.17	-0.84	-0.78	-1.05	Liver				
1930954	0.07	0.28	-0.37 x	-0.24	0.14	-0.72	2.27	0.59 x		-0.94	-1.29		Liver				
1511658	-0.75	-0.43	-1.06	-0.94	0.28	-1.17	-1.10	7.16	-0.48	-0.40	-0.93	-1.32	Liver				
2590673	-0.13	-0.44	-0.77	-0.63	0.06	-0.72	-0.34	4.00	0.15	-0.16	-0.92	-0.85	Liver				
1995380	-0.93	-1.08	-0.99	0.65	0.19	0.19	1.17	2.39	1.01	-0.29	-1.76	-0.58	Liver				
167409	-0.89	-0.47	-0.85	-0.38	0.85	-0.77	-1.25	6.45	-1.16	1.26	-0.81	-1.41	Liver				
1846226	-1.25	-1.28	0.40	0.85	0.01	0.48	-0.40	1.63	0.90	-0.99	-0.82	0.52	Liver				
2052185	-0.85	-0.01	-0.56	-0.73	-1.03	-0.64	-0.53	6.30	-1.16	-0.31	-0.70	-1.00	Liver				
2517389	-0.26	-0.47	-0.83	-0.79	-0.26	-0.65	-0.78	4.45	-0.06	-0.32	-0.49	-0.66	Liver				
911015	-0.98	-0.44	-0.70	-0.54	-0.20	0.01	-0.55	3.18	1.44	-0.45	-0.64	-1.08	Liver				
604856	0.16	-0.30	-0.65	-0.50	0.26	-0.75	0.25	3.02	-0.52	-0.38	-0.17	-1.14	Liver				
1448718	-0.85	0.04	-0.15	-0.04	-0.03	-0.43	-0.67	3.99	-0.81	-0.04	-0.40	-0.72	Liver				
2517268	-0.12	-0.10	-0.69	-0.81	-0.19	-0.61	-0.76	4.71	-1.02	-0.48	-0.41	-0.66	Liver				
167134	0.28	-0.46	-1.10	-1.18	0.17	-0.47	-0.91	4.71	-1.04	-0.43	-0.46	-0.50	Liver				

Table 5

Clone ID	Mean(tissue)-Mean(Entire Sci)												First	Second	Third	Fourth	
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain					
2843638	-0.16	-0.58	-0.31	0.59	-0.17	-0.39	0.38	2.48	-0.65	-0.43	-0.41	-0.39	Liver				
1813269	-0.56	-0.93	0.88	-0.91	-0.77	0.22	1.28	4.75	-2.04	-1.42	0.15	-2.16	Liver				
1861971	-0.65	-0.21	-0.56	-0.61	-0.20	-1.47	0.00	7.31	-1.51	-1.21	-1.06	-1.30	Liver				
2005973	-0.27	-0.74	-1.13	-1.29	0.50	0.27	-0.45	3.49	-0.02	-0.37	-0.60	-0.70	Liver				
2515729	-0.71	-0.50	-1.08	-1.45	-0.83	-0.63	-0.89	5.52	0.49	-0.02	-1.14	-0.37	Liver				
2132356	-0.74	0.06	-0.49	x	-0.61	-0.67	-0.57	3.29	0.72	x	-0.65	-0.70	Liver				
1001726	-0.45	-0.48	-0.42	x	-0.56	-1.05	-0.05	2.77	1.16	x	-1.01	-0.24	Liver				
2631845	-0.79	0.09	-0.72	-0.89	0.08	0.12	0.59	3.77	-0.51	-0.95	-0.86	-1.38	Liver				
86390	-0.45	0.02	-0.22	-0.11	-0.06	-0.56	-0.31	3.84	-1.03	-0.48	-0.14	-1.00	Liver				
1287840	0.02	-0.31	-0.17	0.16	0.09	0.48	-0.54	1.54	0.51	-0.56	-0.81	-0.68	Liver				
2516905	-0.05	-0.27	-0.75	-1.04	-0.09	-0.45	-0.48	3.16	-0.72	0.02	-0.21	-0.09	Liver				
606122	-0.25	-0.44	-0.74	-0.70	-0.15	-0.22	-0.43	3.46	-0.52	-0.12	-0.33	-0.39	Liver				
3553733	-0.65	0.18	-0.81	-0.94	-0.35	-0.51	-0.17	3.08	-0.01	-0.41	-0.43	-0.27	Liver				
1813381	0.51	-0.05	-0.60	-0.21	-0.75	-1.01	-0.98	5.36	-0.91	-0.21	-0.67	-1.19	Liver				
1988108	-1.05	-0.87	1.08	2.06	-0.33	-0.38	-0.08	2.29	0.39	1.17	-0.43	-1.45	Liver	Ovary			
1644648	-1.33	-0.54	-1.07	1.84	0.38	1.65	-1.07	2.45	1.62	0.38	-1.53	-1.54	Liver	Ovary			
2516104	-0.66	-0.08	-0.73	-0.39	-0.76	3.04	-1.33	5.15	-1.62	-1.11	-1.40	-1.62	Liver	Intestine			
2516448	-0.37	0.11	-0.57	-0.63	-1.01	1.62	-0.90	3.73	-1.10	-0.45	-0.72	-0.95	Liver	Intestine			
2514507	-1.15	0.20	-0.32	-0.32	-0.88	2.14	-1.21	5.48	-1.52	-0.92	-1.19	-1.54	Liver	Intestine			
1427470	-0.58	-0.74	-1.04	0.86	0.53	1.70	-0.32	2.46	-1.31	0.65	-0.55	-0.83	Liver	Intestine			
1311471	-1.04	-0.28	-0.17	-0.39	-0.48	1.74	-1.07	4.88	-1.26	-0.44	-1.00	-1.26	Liver	Intestine			
195142	-1.29	-0.57	-1.38	-1.27	1.24	1.93	-1.15	5.03	-0.97	-0.64	-1.10	-1.15	Liver	Intestine			
29598	-1.80	-0.91	-1.26	-0.33	1.25	3.21	-1.11	5.21	-0.71	-1.12	-1.22	-2.18	Liver	Intestine			
1968576	-1.18	-0.86	-1.29	-1.09	0.29	1.55	0.55	2.33	1.23	-0.78	-0.79	-1.54	Liver	Intestine			
2959255	-1.41	-0.90	0.18	1.00	-0.78	1.67	-0.64	1.93	-0.05	-1.53	0.76	-0.78	Liver	Intestine			
446969	-1.32	-1.59	-1.96	-2.08	-0.05	1.82	0.56	4.44	0.60	-0.90	-0.77	-1.42	Liver	Intestine			
1631511	-1.54	-1.21	-1.72	-1.27	-0.69	2.70	-0.22	2.95	2.04	-0.86	-0.78	-1.62	Liver	Intestine		Kidney	
1508741	-0.71	-0.32	-1.29	-0.48	-0.93	-1.23	1.65	5.17	-1.18	0.15	-0.85	-0.93	Liver	Lung			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)													First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain					
2513602	-0.49	-0.42	-0.69	-1.00	-0.78	-1.08	-1.29	3.82	2.96	-0.80	-0.87	-1.06	Liver	Kidney			
1981145	-0.64	-0.78	-0.63	-0.88	-0.86	0.71	-0.85	3.15	2.45	-0.88	-1.37	-1.07	Liver	Kidney			
2103752	-0.74	-1.31	-1.12	0.40	-0.16	0.43	0.89	2.03	1.71	0.52	-0.92	-1.53	Liver	Kidney			
2658782	-0.95	-1.13	-1.84 x	-0.82	1.01	-1.04	3.58	2.62 x			-1.42	-0.89	Liver	Kidney			
2099420	-0.43	-0.71	-1.28	-1.39	-0.90	-0.51	-0.64	3.00	2.74	-0.25	-0.94	-0.50	Liver	Kidney			
637639	-0.73	-0.60	-0.88	-0.77	-0.72	-1.32	-0.90	3.99	2.55	-0.98	-0.46	-0.88	Liver	Kidney			
279249	-0.49	-0.82	-1.28	-0.90	-0.88	-1.23	-1.55	4.71	3.73	-1.25	-0.94	-1.25	Liver	Kidney			
1379063	-1.65	-0.73	-0.97	-0.74	-0.21	0.25	-0.49	3.34	2.32	-0.29	-0.74	-1.17	Liver	Kidney			
89747	-0.93	-0.66	-1.22	-1.30	-1.00	-1.09	-1.33	4.91	3.18	-0.15	-1.11	-1.01	Liver	Kidney			
2515873	-0.70	-0.44	-0.49	-0.57	-0.97	-1.06	-0.93	3.83	2.18	-1.10	-1.08	-0.26	Liver	Kidney			
1432372	-1.30	-0.96	-1.53	-1.35	0.66	0.84	0.84	2.00	1.75	-0.77	-0.65	-1.22	Liver	Kidney			
1633719	-1.13	-0.86	-1.62	-1.39	-0.98	1.29	-1.48	4.28	3.36	-0.23	-1.44	-1.74	Liver	Kidney			
1712663	-0.56	-0.60	-0.62	-0.44	-0.03	-0.57	0.01	3.71	-0.68	1.95	-0.66	-0.72	Liver	Pancreas			
4285203	-0.83	1.26	-0.25	-1.06	-0.75	-0.17	-0.60	3.32	-0.90	1.96	-0.80	-0.90	Liver	Pancreas			
1634342	-0.85	-1.03	-0.60	-0.22	0.10	0.81	0.08	1.00	1.86	-0.22	-0.71	-0.70	Kidney				
1418871	-0.23	0.00	-0.42	-0.68	-0.45	-0.58	-0.26	-0.18	3.31	-0.27	-0.64	-0.52	Kidney				
3766382	-0.73	-0.61	0.43	-0.51	0.15	0.05	-0.32	-0.43	2.23	-0.14	0.11	-0.47	Kidney				
943181	-0.06	0.01	-0.43	-0.43	-0.30	-0.45	-0.63	-0.65	3.37	-0.23	-0.42	-0.46	Kidney				
603761	-0.82	-0.17	-0.79	x	-0.30	-0.86	-0.54	-0.57	3.77	x	-0.40	0.32	Kidney				
1297562	0.76	-0.53	0.95	-0.21	-1.08	-1.15	1.34	-1.81	2.23	1.04	-0.85	-0.17	Kidney				
2910715	-0.56	-0.53	-0.86	-1.34	0.67	-0.86	0.92	-0.39	2.73	1.00	-0.13	-0.93	Kidney				
196975	0.18	-0.20	-0.48 x		-0.11	-0.20	-0.66	0.50	1.58 x		-0.40	-0.41	Kidney				
1453049	-0.66	-0.55	-0.91 x		1.16	0.46	1.41	-0.76	2.28 x		-0.99	-1.35	Kidney				
1968695	-0.49	-0.44	0.06	-0.18	-0.18	1.44	-0.05	-0.86	1.73	-1.01	0.02	-0.87	Kidney				
958344	-0.03	-0.31	-0.98	-0.89	-0.43	-0.87	-0.96	-0.82	5.82	0.68	-0.89	-0.93	Kidney				
2820985	-1.00	-0.60	-1.08	-0.45	-0.40	2.44	-1.34	0.73	3.34	-0.55	-1.08	-1.16	Kidney	Intestine			
1633393	-0.28	-1.00	-0.69	-0.07	-0.35	1.65	-0.13	-0.88	1.92	0.28	-1.15	0.49	Kidney	Intestine			
1806451	-0.72	-0.15	0.17	-0.68	-0.35	1.88	-0.91	-0.75	2.74	-0.54	-0.69	-0.87	Kidney	Intestine			

Table 5

Clone ID	Mean(issue)-Mean(Entire Set)											First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain			
2674772	-1.43	-0.86	-1.33	-1.24	-0.78	2.41	-1.31	1.44	4.20	-0.20	-1.07	-1.47	Kidney	Intestine	
1376121	-0.67	-0.73	-1.03	-0.76	0.18	-0.67	1.83	-0.48	2.23	-0.35	-0.20	-0.38	Kidney	Lung	
831794	-0.02	0.67	-0.84	-1.00	-0.57	-1.15	-0.74	1.60	2.54	-1.58	-1.11	0.00	Kidney	Liver	
1427681	-0.99	-0.27	-0.83	-0.35	-1.02	-1.17	-0.84	3.24	3.60	-0.82	-0.76	-1.18	Kidney	Liver	
2912830	-0.78	-0.54	-1.49	-0.22	-0.44	-1.18	-1.22	1.73	4.88	2.60	-1.00	-1.40	Kidney	Pancreas	Liver
504786	-0.61	-0.63	-1.01	-1.17	0.64	-0.98	-0.83	-1.42	3.62	-1.02	-0.53	2.35	Kidney	Brain	
254081	0.09	0.27	-0.52	-0.14	-0.34	-1.10	-0.42	-0.28	-0.14	8.97	-0.41	-0.39	Pancreas		
1330674	0.41	0.21	-0.11	-0.48	-0.08	-0.65	-0.39	-0.50	-0.72	8.59	-0.37	-0.56	Pancreas		
2377834	-0.29	0.76	-0.06	-0.28	-0.50	-0.64	-0.33	-0.27	-0.96	10.28	-0.41	-0.81	Pancreas		
2075464	-0.26	0.32	-0.07	-0.44	1.22	-0.29	-0.49	-0.43	-0.92	8.25	-0.49	-0.81	Pancreas		
2383235	-0.29	0.71	0.43	-0.28	-0.24	-0.96	-0.08	-0.29	-0.99	9.28	-0.41	-0.81	Pancreas		
1285503	-0.61	0.09	-0.67	-0.49	0.07	1.10	0.64	-0.26	-0.60	3.83	-0.39	-0.67	Pancreas		
2383205	-0.31	0.50	-0.08	0.00	-0.25	-0.56	-0.26	-0.05	-0.91	9.32	-0.52	-0.78	Pancreas		
2015871	0.19	0.82	0.33	0.10	-0.36	-0.42	-0.50	-0.60	-0.80	7.12	-0.42	-0.66	Pancreas		
2374046	0.28	-0.45	-0.78	-0.81	-0.39	-0.16	0.00	-0.05	0.09	4.23	-0.24	0.16	Pancreas		
1709828	-0.76	-0.86	-0.64	0.79	0.48	0.45	0.61	-0.51	0.96	2.20	-0.50	-0.27	Pancreas		
2061119	0.20	0.87	1.11	1.32	-0.04	0.10	-0.76	-0.98	-0.08	1.71	-0.30	-0.79	Pancreas		
3665105	-0.37	-0.42	-0.90	-1.12	-0.49	-0.08	-0.36	-0.37	1.07	6.89	-0.25	-0.22	Pancreas		
2068983	-0.66	-0.30	-0.46	-0.30	0.04	0.52	-0.25	-0.29	-0.58	7.80	-0.16	-0.50	Pancreas		
2242648	0.29	0.33	0.13	0.04	-0.19	-0.09	-0.27	-0.47	-0.84	6.92	-0.65	-0.58	Pancreas		
885032	0.54	0.06	-0.23	-0.51	0.47	0.12	-0.72	-0.75	-0.86	6.19	-0.15	-0.28	Pancreas		
2383830	-0.68	1.29	0.17	0.31	-0.06	-0.50	0.26	-0.57	-1.01	9.31	-0.61	-1.45	Pancreas		
2085191	-0.20	-0.03	-0.51	-0.27	-0.33	0.85	-0.57	-0.49	-0.80	10.19	-0.79	-0.73	Pancreas		
2792982	-0.13	0.17	-0.12	-0.05	0.01	1.34	-0.86	-0.78	-1.13	9.48	-0.85	-0.82	Pancreas		
179929	2.09	-1.33	-1.13	-1.39	1.30	1.65	-0.73	0.02	0.80	2.70	-1.24	-1.81	Pancreas	Heart	Intestine
2741788	-0.58	-1.06	0.59	1.65	0.66	1.10	-0.91	-0.65	-0.60	3.55	0.63	-0.49	Pancreas	Ovary	
2373608	-0.59	0.08	-0.08	-0.92	2.56	0.80	-0.75	-0.73	-0.86	7.14	-0.83	-0.85	Pancreas	Stomach	
2182095	-0.59	-0.32	-0.67	-1.35	2.23	4.43	-1.26	-1.39	-1.53	6.86	-0.94	-1.27	Pancreas	Intestine	Stomach

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
2923150	-1.16	-0.28	-0.82	-0.86	2.97	3.67	-1.15	-1.30	-1.11	10.01	-1.49	-1.67	Pancreas	Intestine	Stomach	
293495	0.10	-1.09	-1.56	0.18	0.39	-1.08	-0.07	3.75	-0.78	4.65	-1.12	-0.54	Pancreas	Liver		
4284270	-0.80	-0.21	-0.63	-0.91	-0.87	-0.83	-0.23	3.61	-0.55	4.01	-0.62	-0.40	Pancreas	Liver		
958923	-0.52	-0.65	-0.35	-0.26	-0.36	-0.52	-0.63	-0.29	2.14	2.73	-0.56	0.68	Pancreas	Kidney		
1921393	-1.28	-1.10	0.26	-1.09	3.15	-0.28	-1.00	-1.28	3.40	4.61	-0.48	-1.42	Pancreas	Kidney	Stomach	
1447866	-0.47	-0.31	-0.13	-0.44	0.57	0.28	0.17	-0.34	-0.36	-0.64	1.94	-0.84	Spleen			
1666737	-1.13	-0.49	-0.27	-0.94	0.30	0.36	1.03	-0.48	-0.17	-0.50	2.43	-1.08	Spleen			
586245	-0.37	-0.26	1.74	-0.23	-0.14	0.09	-0.35	0.16	-0.20	-1.44	2.61	-2.19	Spleen	Uterus		
194162	-1.15	-0.35	-1.05	-1.03	3.19	1.56	-0.52	-0.73	-1.03	-1.30	3.20	-1.64	Spleen	Stomach	Intestine	
243123	-0.53	-0.27	-0.54	-0.77	0.19	-0.20	-0.77	-0.31	-0.78	0.67	-0.44	3.56	Brain			
382416	0.42	0.52	0.69	0.69	-0.64	-0.94	-0.35	-0.78	-1.53	-0.72	-0.73	3.38	Brain			
1852659	0.05	-0.49	-0.49	-0.75	-0.73	-0.32	-0.15	-0.55	-0.83	-0.07	-0.51	3.88	Brain			
3220181	-0.53	-0.65	-0.38	0.05	-0.22	1.41	-0.78	-0.09	-0.18	0.05	-0.49	1.68	Brain			
1726307	-0.60	0.74	0.26	0.58	0.08	-0.49	-0.15	-0.85	-0.79	-0.88	-0.31	2.32	Brain			
1904244	-0.21	0.13	-0.32	0.26	-0.54	-0.25	-0.46	0.08	-0.32	0.13	-0.42	1.90	Brain			
2039955	-0.51	0.05	-0.36	-0.52	-0.42	-0.52	-0.45	-0.18	-0.43	-0.33	-0.29	3.14	Brain			
2675641	-0.29	-0.73	0.39	0.27	0.17	-0.20	-0.85	-0.83	-0.12	-0.56	0.35	2.39	Brain			
1412749	0.09	-0.46	-0.76	-1.07	0.03	0.03	-0.51	-0.31	-0.59	0.20	-0.25	2.77	Brain			
1963854	-0.61	-0.87	0.23	-0.10	0.23	0.91	-0.74	-0.85	0.55	-0.84	-0.10	1.71	Brain			
2949085	0.16	-0.46	0.50	0.24	-0.19	-0.49	-0.12	-0.83	-0.34	-0.44	0.07	1.88	Brain			
2963196	0.18	0.29	-0.27	-0.49	0.12	-0.11	-0.70	-0.86	-1.03	-1.03	-0.63	3.46	Brain			
1505977	-0.21	-0.39	0.34	-0.48	-0.26	-0.83	-0.44	-0.05	-0.91	-0.20	-0.65	3.67	Brain			
1674985	0.46	-0.39	-0.25	-0.09	-0.59	-0.29	-0.38	-0.43	-0.01	-0.20	-0.23	1.93	Brain			
2109054	0.45	1.38	0.29	0.29	-0.56	-1.11	-0.70	-0.65	-0.18	-0.61	-0.90	2.00	Brain			
3317039	-0.49	0.01	-0.01	0.18	-0.01	-0.47	-0.66	-0.69	0.86	-0.37	-0.77	2.27	Brain			
2838551	-0.09	-0.22	0.00	-0.25	-0.25	-0.30	-0.31	-0.36	-0.02	0.29	-0.31	1.77	Brain			
1477568	0.65	-0.04	-0.22	-0.82	-0.13	-0.66	-0.49	-1.28	-0.04	-0.98	-0.30	3.00	Brain			
2963871	-0.25	-0.32	0.87	0.29	0.03	0.14	0.12	-1.14	-0.50	-0.47	-0.41	1.82	Brain			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	Brain	Brain	Brain	Brain
1740547	-0.31	-0.49	-0.44	-0.60	-0.22	-0.21	-0.28	-0.64	-0.66	-0.47	0.24	3.15	Brain			
2292011	0.10	-0.24	-0.09	-0.75	-0.13	-0.68	-0.37	-0.39	-0.80	-0.80	-0.64	3.68	Brain			
1349484	-0.29	0.22	0.21	x	-0.41	-0.37	-0.12	-0.37	-0.60	x	-0.04	1.71	Brain			
1674253	-0.51	-0.28	-0.80	-0.52	-0.56	-0.43	1.02	-0.67	0.57	-0.52	-0.14	1.70	Brain			
1932189	0.07	-0.50	-0.99	-1.17	-0.14	-0.30	-0.64	-0.80	-0.69	-0.30	0.13	3.97	Brain			
1403041	0.36	0.45	0.53	-0.34	-0.17	-0.41	-0.67	-0.81	-0.86	-0.55	-0.67	2.66	Brain			
1486358	0.28	-0.50	-0.01	0.33	-0.05	-0.23	-0.17	-1.00	-0.17	-1.16	-0.92	3.03	Brain			
1439065	0.13	-0.37	-0.58	x	-0.30	-0.17	-0.13	-0.06	-0.53	x	0.04	1.68	Brain			
530629	-0.42	0.15	-0.39	x	-0.47	-0.19	-0.34	-0.36	-0.74	x	-0.20	2.68	Brain			
1672676	-0.06	-0.47	0.32	0.21	-0.36	-0.42	-0.51	-0.95	-0.71	-0.68	-0.30	3.59	Brain			
1989129	-0.39	-0.44	0.26	0.00	0.10	-0.03	-0.33	-1.18	0.11	-1.00	-0.60	2.95	Brain			
1486348	-1.03	0.33	0.41	0.41	-0.34	-0.33	-0.53	-0.93	-1.14	-0.20	-0.20	3.71	Brain			
1397294	-0.53	0.01	-0.30	-0.89	-0.04	-0.54	0.13	-0.66	-0.89	-0.78	0.51	2.75	Brain			
2844322	0.11	-0.22	0.46	-0.02	-0.36	-0.55	-0.16	-0.88	-1.15	-0.75	-0.61	3.64	Brain			
1481440	-0.62	0.26	-0.25	0.67	-0.52	-0.44	-0.34	-0.43	-0.72	-0.33	-0.14	2.82	Brain			
26459	0.60	-0.56	-0.83	-0.84	-0.30	-0.67	-0.20	-0.15	-0.31	-0.34	-0.05	2.49	Brain			
1406786	-0.47	0.48	0.25	0.19	-0.07	-0.48	-0.05	-0.66	-0.47	-0.92	-0.36	2.14	Brain			
1485846	-0.37	-0.40	0.01	-0.38	-0.49	-0.04	-1.26	-1.03	-1.58	-1.04	-1.11	6.58	Brain			
2153242	-0.65	-0.37	-0.68	-0.90	-0.31	0.16	-0.29	-0.41	-0.75	-0.23	-0.03	3.38	Brain			
2157981	-0.35	-0.53	-0.45	-0.24	-0.20	-0.73	-0.68	-0.60	0.77	0.07	-0.62	3.23	Brain			
3244361	-0.47	-0.04	-0.23	-0.55	-0.36	-0.54	-0.64	1.42	-0.66	-0.14	-0.60	2.16	Brain			
1986737	-0.10	1.12	-0.16	-1.11	-1.01	-0.57	-0.59	-1.10	-0.04	-0.91	0.10	2.63	Brain			
2506867	-0.67	0.12	0.21	1.14	-0.88	-0.18	-0.91	-1.40	0.71	-0.86	-1.37	4.06	Brain	Heart		
1211682	1.89	-0.92	-0.91	-0.22	-0.43	0.47	-1.04	-0.37	-1.24	-1.54	-0.50	3.18	Brain	Heart		
1416354	1.96	-0.66	-0.27	-0.78	-0.93	-0.46	-0.39	-0.60	-0.77	-0.61	0.01	2.16	Brain	Uterus		
2963962	1.40	-0.36	1.60	0.14	-0.23	-0.29	-0.80	-0.70	-1.15	-0.55	-0.66	1.78	Brain	Intestine		
1761086	0.70	0.98	-1.19	-1.49	0.57	1.61	-1.03	-1.05	-0.55	-1.04	-1.17	1.77	Brain	Lung		
2588552	-0.84	0.98	-1.45	-1.33	-0.23	-1.10	1.97	-0.61	-0.82	-0.15	-0.75	2.78	Brain			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
1901271	-1.09	-1.96	-1.10	-0.34	-0.51	0.86	-0.30	1.52	0.41	-0.87	0.30	1.73	Brain	Liver		
1740924	-0.04	-0.43	-0.84	-0.64	-0.23	-0.52	-0.51	1.67	-0.80	-0.23	-0.26	1.90	Brain	Liver		
1480159	-0.86	-0.07	-0.82	-0.86	-0.79	-0.52	-0.59	-0.38	0.50	2.34	-0.05	2.55	Brain	Pancreas		

What is claimed is:

1. A plurality of cell and tissue specific polynucleotides selected from SEQ ID NOs:1-416 or the complement thereof.
- 5 2. A subset of the polynucleotides of claim 1, wherein the subset is selected from at least one of the groups consisting of
 - a) SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof,
 - b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and
10 fragments thereof;
 - c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof;
 - d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of ovary and fragments thereof;
 - 15 e) SEQ ID NOs:257-263 and 49-55, cell specific polynucleotides of stomach and fragments thereof;
 - f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof;
 - g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments
20 thereof;
 - h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof;
 - i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney and fragments thereof;
 - 25 j) SEQ ID NOs:357-374 and 149-166, cell specific polynucleotides of pancreas and fragments thereof; and
 - k) SEQ ID NOs:375-416 and 167-208, cell specific polynucleotides of brain and fragments thereof.
2. The composition of claim 1, wherein the polynucleotides are immobilized on a substrate.
- 30 3. A high throughput method for detecting expression of a polynucleotide in a sample, the method comprising:
 - a) hybridizing the polynucleotides of claim 1 with the nucleic acids of the sample under condition to form a hybridization complex; and
 - b) detecting the hybridization complex, wherein the presence of hybridization complex
35 indicates expression of the polynucleotide in the sample.
4. The method of claim 3 wherein the nucleic acids of the sample are amplified prior to

hybridization.

5. The method of claim 3 wherein hybridization complex formation indicates the differentiation of embryonic stem cells into a tissue selected from the group consisting of brain, heart, kidney, liver, lung, muscle or pancreatic tissues.

5 6. A high throughput method of screening molecules or compounds to identify a ligand, the method comprising:

a) combining the polynucleotides of claim 1 with molecules or compounds under conditions to allow specific binding; and

b) detecting specific binding, thereby identifying a ligand which specifically binds to the
10 composition.

7. The method of claim 6 wherein the molecules or compounds are selected from DNA molecules, RNA molecules, peptide nucleic acids, mimetics, peptides, and proteins.

8. An isolated polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof.

15 9. The polynucleotides of claim 8 wherein the fragments are SEQ ID NOs:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204, respectively.

10. An expression vector containing a polynucleotide of claim 8.

11. A host cell containing the expression vector of claim 10

12. A method for producing a protein, the method comprising the steps of:

20 (a) culturing the host cell of claim 11 under conditions for the expression of protein; and

(b) recovering the protein from the host cell culture.

13. A protein produced by the method of claim 12.

14. A high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, the method comprising:

25 (a) combining the protein of claim 13 with the library under conditions to allow specific binding; and

(b) detecting specific binding between the protein and a molecule or compound, thereby identifying a ligand which specifically binds the protein.

15. The method of claim 14 wherein the library is selected from DNA molecules, RNA
30 molecules, peptide nucleic acids, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents.

16. A method of purifying a ligand from a sample, the method comprising:

a) combining the protein of claim 13 with a sample under conditions to allow specific binding;

35 b) recovering the bound protein; and

c) separating the protein from the ligand, thereby obtaining purified ligand.

17. A composition comprising the protein of claim 13 in conjunction with a pharmaceutical carrier.
18. A purified antibody that specifically binds to the protein of claim 13.

SEQUENCE LISTING

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 SORNASSE, Thierry R.
 SEILHAMER, Jeffrey J.
 WATSON, George A.

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 <223> a, t, c, g, or other

<400> 10
 ctgagtctca gcatggcgga tgggagcagc gatgctggcta gggaacctcg ccctgcacca 60
 gcccgaatca gacgccgctc ctccaactac cgcgcttatg ccacggagcc gcacgccaag 120
 aaaaaatcta agatctccgc ctcgagaaaa ttgcagctga agactctgct gctgcagatt 180
 gcaaagcaag agctggagcg agaggcggag gagccggcgc ggagagaagn ggcgcg 236

<210> 11
 <211> 225
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3208425H1

<220>
 <221> unsure
 <222> 204, 214, 220, 222, 224
 <223> a, t, c, g, or other

<400> 11
 gcactgacct cggagcagaa gaaggagctg tctgacatcg ctcaccgcat cgtggcacct 60
 ggcaaggggc atcctgggct gcagatgagt ccactgggag cattgccaaag cggctgcagt 120
 ccattggcac cgagaatcac cgaggagaac cggcgcttct accgccagct gctgctgaca 180
 gctgacgacc gcgtgaaccc tganttgggg gtgnaatcnn tntnc 225

<210> 12
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1668474F6

<220>
 <221> unsure
 <222> 58
 <223> a, t, c, g, or other

<400> 12
 cctctctgga gtgtagcaag gctgaggact ctgatgccac aggtcacgag tggaagtngg 60
 agggggcatc tcagaggaac cgcggggccc cgagttgggc tctctggaac ttgtggagga 120
 cgacacagtg gattcagatg ccacaaatgg ccttatcgat ttgcttgaac aggaggaagg 180
 tcagagggtca gaagagaagc tgccagggtc taagaggcag gatgacgca cagggtgcagg 240
 gcaggactca gagaatgaag tgtctcttgt ttcaggccat cagagggggc aagcccgaat 300
 cacacattcc cccaccgtga gtcagggtgac ggagaggagt caggacagac tgcaggactg 360
 ggatgcagac ggctcgattg tctcatacct gcaagatgct gcacaagggt cctggcaaga 420
 ggaggtcacg caaggtccac actcattcca ggggacaagt accatgac 468

<210> 13
 <211> 213
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1622542T6

<220>
 <221> unsure
 <222> 98, 170, 200

<223> a, t, c, g, or other

<400> 13

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agcaaatctc ttagtatttt tctctttgtc caaagggttct gaccatgttc atgacctaag 60
cttgtccctg gaagcatata tgtccctggg agacagggnag gttcagggaa cttctccacc 120
ctgattctag ccaatggcca gcgaactcct ttccagggt tggcttggcn gtgtcgggga 180
atgatgcagg ttcacgggn tgggcatgaa aag 213
```

<210> 14

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4014318T6

<220>

<221> unsure

<222> 10, 12, 63, 71, 365, 376

<223> a, t, c, g, or other

<400> 14

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cagttaaaan tncctccag ggctcctgga agccaaggag gggacgctgg gctcaccaga 60
ganggtgtgt nttataccg agaaagagac aggctggcta tttacacgga acaccagct 120
ggcaaacaca ggttgtccct gcaatgttca taaaggacaa ctggaggcag cttatcagag 180
gctggtacag tggggacacc tctgagctcc aggggaagtt gggccctgc aaacacctgt 240
ccacctgctg gctctgcctc ccccaactgt ggccagggtta ggactcacgt cttgctctat 300
tcccagggga gcctgcggca gccagagga actcagagag aggaagcagc ctgcgactgt 360
tgcanngggg cagatnggag cagggtgggg ctaaaattgc tcccgccctc ctcttctggg 420
```

<210> 15

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2394888H1

<220>

<221> unsure

<222> 92, 155

<223> a, t, c, g, or other

<400> 15

```
ctacaggctt ccaggcacct catcagtcac gttcctcctc cattttaccc cctaccatc 60
cttgatcggg catgcctagc ctgacccttt antaaagcaa tgaggtagga agaacaacc 120
cttgtccctt tgccatgtgg aggaaagtgc ctgcntctgg tccgagccgc ctcggttctg 180
aagcgagtgc tctgtcttac cttgctctag gctgtctgca gaagcacctg ccggtggcac 240
tcagcacctc cttgtgctag ag 262
```

<210> 16

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1345550H1

<220>

<221> unsure

<222> 83

<223> a, t, c, g, or other

<400> 16

```

ccgccctgcg aggaatgcat tgtgtggctg ctgctgaagg agcccatgac cgtgagctct 60
gaccagatgg ccaagctgcg ganctcctct ccagtgtga gaacgagccc ccagtgcctc 120
ttgtgagcaa ctggcgacct ccacagccta tcaataacag ggtgggtgaga gcttccttca 180
aatgaggctg ctggatcttg cctctttcag gaaaggaaac ctaccattgg agagcttggt 240
tccttgctc cttctg 256

```

<210> 17
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1719955H1

```

<400> 17
gtgtgtaagg cgggagcagc tgagaagggg gtccccctgt accgccacat cgcagatctc 60
gctgggaacc ctgacctcat actcccagtg ccagccttca atgtgatcaa cgggggctcc 120
catgctggaa acaagctggc catgcaggag ttcattgattc tgcctgtggg agccagctcc 180
ttcaaggaag ccatgcgcat tggcgccgag 210

```

<210> 18
 <211> 252
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2256026H1

```

<400> 18
atcgtggtgc agaaaggaga cgaagcgggc ggctacgtca aggtctacac cggccgcaag 60
tggggctgtt tcccaccgac tttctagagg aaatttaggc gtgcgggcgc ctgcaagcgg 120
gagacaccca caccctatc tgggcgggcc cagtggagtt tggggagggg ggcgaaagca 180
acgggactgc tgggagagga ggggtaggaa ggcccgcctg agcgcgacgg ggttcccggt 240
aagggactgg tt 252

```

<210> 19
 <211> 643
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1538086T6

<220>
 <221> unsure
 <222> 2-4, 13, 16, 19-21, 24, 28-29, 31-43, 45-46, 49, 52, 58, 82, 93, 605, 619, 623
 <223> a, t, c, g, or other

```

<400> 19
cnnncgcccc cgntcnatnn nccnattnnt nnnnnnnnnn nnnanngcng gngtttantt 60
cgaccgtcga gggaccctg cnagtgggca gcnagtgaac cctcgacaga gaagctggga 120
aagctgctgg tgacacacag ctgggatcag ccctgggctg gtgggacccc tcacagagaa 180
gccgggaaag cttctggtga cacacagctg ggatcagccc agggctgggt cgacaccctg 240
gactcccggc caggaaggca cggaggagg catgggtgtg gccgggccgg ggtgggggct 300
cagccttttg tcaccaggg cgtgattcat ctgtgggaag gcgtagtagc ggcagttcgg 360
ccggtgggaa ccagcgccat caaccttccc gtacggatgt tctccccctc cggaaagccc 420
ggcctccagc agcgcggggc aacctggcgt tcttcctcaa acatgatggt gatgtctgag 480
tacttgggaa ttcacagct tccccccagg aggtgaggtt gcagtagggt aggaacgccc 540
ccccggcttc agcaggcgaa aaggcgtggt tcttgatgaa gtttgaactg ggtgtgtgtg 600
ccaangttct tccttccgna ganttggggt acgtgttcgt aac 643

```

<210> 20
 <211> 273

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 958633H1

<220>
<221> unsure
<222> 8, 126
<223> a, t, c, g, or other

<400> 20
ggcaaatntg agtggcttct ctaagcatct gctggtacaa gtcaatgttg caccatgagc 60
ttcatgggtg cagaagagac aatagtcctt agctctcctc ccagtacacc ccctacttgg 120
ccagntntgt ggccaacaag aaggttcctt taccctcatg caagacactt atgagaacac 180
attacaagat ggctgaccgt ggaggatgag tggatcctga aaggttgtcc caaactgttg 240
atttgaaaaa gaaataagca catagataac ctt 273

<210> 21
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2635943T6

<220>
<221> unsure
<222> 4-5, 7-8, 20, 28, 31-32, 42-43, 59, 63, 236
<223> a, t, c, g, or other

<400> 21
ccanntnntg gccacaatan ttaaattnaa nngattggcc gnngtggtac caagaagant 60
cancctttct actccttctc tttcgtctgg tcaactcagaa atataatatt atcagctatg 120
attgttggtg cttgtcgcct cacattattt ttatccatgt attcaccata gtctattttc 180
ccttccaaat aaattcgaga cccctttttc acatattgat atgccacgct tctgangcct 240
ggccggaata ctgatatctt gtgccatggt gtcttttgac tgacatcacc cagttggtaa 300
acttcactat cccctgatcg ccacatctca ttagttgcta gagaaaatat tgtgactgga 360
ttttttcctt ccacctgtct caagacaggg tcttgaccca ctgcgccaag taagtggcac 420
acgattcagg gatctttcaa agaaccaaac tg 452

<210> 22
<211> 181
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 121888H1

<220>
<221> unsure
<222> 18, 56, 133, 173
<223> a, t, c, g, or other

<400> 22
aaacatgaga ggcgagtnaa ggaactcact taccagacgg aagaagatag aaagantatt 60
ctcaggcttc aagatttggg agataaaact caggcaaaaag tgaaatctta taagagacaa 120
gctgaggagg ctnaggaaca atccaacacc aatctagcta aattccgcaa gcncacgcat 180
g 181

<210> 23
<211> 206
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1627492H1

<400> 23
 ctcgagccgt caaaatggaa caggctaaaa cagaggatga aaagtccaaa ttaactgtgc 60
 tacagatgac acacaacaag cttcttcaag aacataataa tgcattgaaa acaattgagg 120
 aactaacaag aaaagagtca gaaaaagtgg acagggcagt gctgaaggaa ctgagtgaaa 180
 aactggaact ggcagagaag gctctg 206

<210> 24
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4073867H1

<220>
 <221> unsure
 <222> 161
 <223> a, t, c, g, or other

<400> 24
 cagccatgga gcagcttcgc gccgccgccc gtctgcagat tgttctgggc cacctcggcc 60
 gccctcggc cggggctgct gtagctcatc ccacttcagg gactatttcc tctgccagtt 120
 tccatcctca acaattccag tatactctgg ataataatgt nctaaccctg gaacagagaa 180
 aattttatga agaaaatggg tttctagtaa tcaaaaatct tgtacctgat gccgatattc 240
 aacgctttcg gaatgagttt gaaaaaatct gcagaaagga ggtgaaacca ttaggatta 299

<210> 25
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2190170T6

<220>
 <221> unsure
 <222> 16, 92, 130, 251-252
 <223> a, t, c, g, or other

<400> 25
 tgactagtta aattancatg cttgacatta actctgggtt gaaacctacc tccgtcaaatt 60
 aacaagtggc ctctccaagc aaatgtctac anggcaattc aagcagcaac tcaagagccc 120
 agaggagcan tggagacgag gccatcactc cacttcccag tgcgacaacc acttttttgt 180
 aaacacctgt cagatgctaa aaatacggcc ttacacacta ccgtcaccaa agtttataag 240
 caataagatc nnagagcagg agccgctgca gcacctctaa cagtccagg 289

<210> 26
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 972224T6

<220>
 <221> unsure
 <222> 87, 138, 149, 164, 170, 210, 238, 289, 307, 314, 316, 339, 368, 372,
 381-382, 388, 411, 417, 424
 <223> a, t, c, g, or other

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<400> 26
cgaacagaag cgctgggagc cggaggcccg cgggtgcccc tactcctggt ccttggcgtc 60
gccgtgcgtg atgacgtagc agatgtnttt gtagtcgacg ttgccgcca cgctgggggg 120
gaaggccgcc cacatgttct tgatctccnc ctggggagaag cggncacacn gcgtgggtcag 180
cagctcctcc aggaacttct tcttgatggn gccctttccc tcagggtcca agacctnaa 240
ggctccgggt atcacatcct cagggtcggc acccttgagc ttctcccna acatgggtcag 300
gaagacngtg aagntnatgg gaccgctggc ttcttcanc atggcatcca actcctcatt 360
cttcacantg angcgcccca nngctgcnna ggtgtccga agtcctcctt ntctatnata 420
ccancacggg tct 433

```

```

<210> 27
<211> 586
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1413644T6

```

```

<220>
<221> unsure
<222> 558, 563
<223> a, t, c, g, or other

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```

<400> 27
ctaaaaatcac acacaaaggc aaatcatgag gaaacgtaa atatttcaaa atgccacga 60
ggcgtgccag aaacagtgtc gtatctatag cacagaatcg ttggaggcca aagctaaagc 120
agtaggggtc actgcaactt ctactctttt actgctgctt tttgtttgt ttgatagagg 180
gggattcagg tgaggggggt cggctctctca ggaagttagg ccataatttc tgcaggttca 240
gtgattaact tggatccatc ccatgctgtc ttgaactgtt cagggaatggg aaattctcta 300
taatcaccat cctgagggat aagtatgttc atttcagatg acttggcgct cagcatctca 360
cagtctaata catcttcact gaggtatatg tggcaacctt ctgtcttatt aatggaaatt 420
gttggcactc tccccattac ctggatttga atgtcctggg agttgatcac ttccacaatg 480
cccaccacat tgtcaaacac cagggccgag tttcttacag tttgtcaatt ataatggagt 540
ttactttccc ttttatcnga atngttgatt tttcgcattt gaaaat 586

```

```

<210> 28
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1538224H1

```

```

<400> 28
gccttggcaa aaaggcgacg cttcttgggc cgcacgtag ctcgtaacag ccgcaagatg 60
gcctttcgcg ccaaattcaa gtcttgccac gacctctcgg ttctctaggt cccaccgcgt 120
cccactatgg tgggagacga acgg 144

```

```

<210> 29
<211> 249
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2623268H1

```

```

<400> 29
tcagaatggg aagaatgaga gaagtcatat gcccggcaca tatttgacta cagtcattcc 60
ttatgagaaa aaaaacggac caccgtctgt tgaagatctt caaatattaa caaaaattct 120
tcgtgccatg aaggaggaca gtgaaaaagt tccgagcttg ttaactgatt atattctgaa 180
agttctgtgt cctacataga gcagcaactt tatctcggtt gggctccaag ctgattttcc 240
gacagcatt 249

```

```

<210> 30

```

<211> 257
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1665533H1

<400> 30
 caagctggag ctgcggactg agccaggctt ccactgggtg attgccgatg gggaggacac 60
 cacagtgcgg gccagcacc actgcaccta tgaccgcgtc gtgctgcacg gggagcgctg 120
 ccggagtctg ctgcacactg cggctgcctt tgacttcccc acgagcttcc agctcaccga 180
 ggaggaggcc ctcaacatca gtgaccacta ccccgaggag gtggagctga agctgagcca 240
 ggcgcacagg tccagcc 257

<210> 31
 <211> 620
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 981484T6

<220>
 <221> unsure
 <222> 91-92, 410, 557, 567
 <223> a, t, c, g, or other

<400> 31
 tcctcgacata ttttatatac atcattccac atttaaaata tattcaggtt tacgtaaaaa 60
 aagaaagtgt taaactatctt acaaaaatac nntaaatacc cctaacatta aatgcaactt 120
 tcccacttta gacaggaatg aacttctttt gaacatggca caaaaggatc accgtaataa 180
 aagttaatat agtataaaac caaccaaaaca aaaacaaaat gaggctagac ctaagccact 240
 cgcagttcca aaaaaataaa agcccaaagc cgaaaggcgt ttctatttga gcatgcacaa 300
 cagatttcgc aatttttcgca acgtttcttt gtgaatgtgt ctcttccct ttcagcaact 360
 tttcggtctg gggtcctaaa tgttaatgta atgtgacct atctaaagg ttaggccagg 420
 aagggtcggg gggatcttcc tgctgcgtgg agaaggctca agcgcaaggc cagttacttc 480
 tccaccactt cctccacgca ggggagtttg cgttctccg aggaaatact gtccacgatg 540
 gaagaaaggc atcgaangct actcgangct gacgatcaat acttgctcct ccttccttag 600
 ccggtatcac gagccccctg 620

<210> 32
 <211> 235
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 973629H1

<220>
 <221> unsure
 <222> 85
 <223> a, t, c, g, or other

<400> 32
 tgcggctgcg gctgccccag ccccggcacc ggcacctgca cctgcccctg cccagccaa 60
 acccaaagaa gaaaaaattg acctntctgc cattaagatc gagttctcta aggaacagca 120
 ggatgaattc aaggaggcat ttctcctggt tgacagaaca ggtgattcca agatcaactt 180
 aagccaggtc ggtgatgtct tcgagctctg ggcacaaatt ccaccaatgc agagg 235

<210> 33
 <211> 399
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1539638T6

<400> 33
 ggctctctgg tggctggaac gtgctttcgc ctgcggggcc cagtgtccgg accccactgg 60
 atctgcagca ctcagacgct taggatgtgt ttcaagaagg cctcgtagtt gatgcagccg 120
 ttgctgtcct cgtgtcctgc cagaacggtc tccacctcct cctcagtcac cttctctcca 180
 aggggtggtga gaacatgtct gagctctgct cccatgactt tgccgttccc ctccttgatca 240
 aacacacgaa acccctccaa gtagtctcct tatgtgcctt ggccctcgggt cttggccact 300
 gcctggagca tgggcaggaa agtctcaaag tccacacgcc gcgacttcag tcatcactct 360
 tgggggttccc aggaccttga gacctcggcg ttggtgggg 399

<210> 34
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3015758T6

<220>
 <221> unsure
 <222> 116, 141, 143, 162, 164, 182, 196, 280, 299, 301, 319-320, 326, 338,
 340, 446-447, 467
 <223> a, t, c, g, or other

<400> 34
 acacagtcct gggaggttgg ggattgggggt caggactcca ccaccaattg tcttggcagg 60
 taggggacag gtctcactgc ggcactcgga cctccagctt gcactcagcc agcgcntcgc 120
 ccagctcggt gacggcccgg nangtgtaag tcccagcgtc gnanggcgac gggcgacgga 180
 tnttcagcgt caggantcct tggtaattgg ttatcaggaa cttgggatct tcatggattt 240
 ccatcttgtg cttcatccaa accaccttcg gcttcgggtn gcctctgaca gcgcagttna 300
 nggctggcga gtaccagann acgacnacgc ggtctatnan aggtgtcagg aacttgggaa 360
 ccattcggaa gtcattgtcc ttatactcga acggtttgaa ggtgattcct gtcttgagga 420
 tgccggccgt gttcttggag acaccnngtg agtcactgag cccacanatg ttct 474

<210> 35
 <211> 254
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2832314H1

<220>
 <221> unsure
 <222> 156
 <223> a, t, c, g, or other

<400> 35
 agggagaag atcaacgcct cactgaaaca tggctgtgtt tgcagcctgc tctagtggga 60
 cagcccagag cctggctgcc catcatgtgg cccacccaa tcaagggaag aaggaggaaat 120
 gctggactgg aggcccttgg agccagatgg caaganggtg acagcttcct ttctgtgtg 180
 tactctgtcc agttccttta gaaaaaatgg atgccagag gactcccaac cctggccttg 240
 ggtcaagaaa cagc 254

<210> 36
 <211> 477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1702996F6

<220>
 <221> unsure
 <222> 389
 <223> a, t, c, g, or other

<400> 36
 ggagcccgagg aagaaactca tcagaaggag ataaaggctc tgtataccgc cacggaaaag 60
 ctttccaaag agaacgagtc attgaaaagc aagctggagc atgccaacaa agagaactca 120
 gatgtgatag ctctatggaa gtccaaactg gagactgccca tcgcatccca ccagcaggcg 180
 atggaagaac tgaaggtatc ttccagcaaa gggcttggaa cagagacggc agaatttgct 240
 gaactaaaaa cacaataga gaaaatgaga ctagattacc aacacgaaat agaaaatttg 300
 cagaatcaac aagactctga acgggctgcc catgctaaag agatggaagc cttgagggtc 360
 aaactgatga aagttattaa agaaaaggna aacagtctgg aagccatcag gtcgaaactg 420
 gacaaagcag aagaccagca tctcgtagaa atggaagaca cgtaaacaattacag 477

<210> 37
 <211> 242
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 839947H1

<220>
 <221> unsure
 <222> 117, 189
 <223> a, t, c, g, or other

<400> 37
 gaagcaagca cctccctcac cccctccaaa gaaggaggaa gctggaggcg aattctgggg 60
 agaactggag gtgcagaggg tgaagttcct gaactacctg tcccggaact ttacancct 120
 gcggttcctt gccctcttct tggcatttgc catcaacttc atcttgctgt ttataaagg 180
 cttagactnt ccaccagggg aggacgacat ggaaggctca gctgctgggg atgtgtcagg 240
 tg 242

<210> 38
 <211> 286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1867522H1

<400> 38
 aaggagtgg agctcaagtt ggagacagcg aggagaaacc tgccatagcc aggggtgtgtc 60
 tttgatcctc ttcaggaggt gaggagaagc cagaggtcct tgggtgtgcc tcagaaatct 120
 gcctgcagtt ctcaccaagc cgctgtgaaa atggggataa acaccggga gctgtttctc 180
 aacttcacta ttgtcttgat tacggttatt ctatgtggc tccttgtag gtcctatcag 240
 tactgagagg ccatgccatg gtectgggat tgactgagat gctccg 286

<210> 39
 <211> 272
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1987831H1

<220>
 <221> unsure
 <222> 233, 269-270
 <223> a, t, c, g, or other

<400> 39


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ttaaattatg aatgcataac ctattttccag gcaggctctc ttacttgaac acaaattccaa 60
aaactaattt agagtctttt ttgcccagat cttttaagac ttacacccca gagatttaag 120
aagaaaacct ctaaatttca aaattatgaa gaattacaga attactcatt taaggctactt 180
taaaagaagt ttgtacattg tcaaagtaaa ttttaattca aatcatgtct gtnaaacttg 240
acgtattttg tgtatgcatg ttttcattnn gc 272

```

```

<210> 40
<211> 263
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<223> Incyte ID No: 2639708H1

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```

<400> 40
ggccagccca gctccacgag gactgaacaa ggtgctgtct cactgccacc atgccggaag 60
tcgagagaaa acccaagatc actgcctccc gcaaaactctt gctgaagagc ctgatgctgg 120
ccaaggccaa ggaatgctgg gagcaggagc acgaggagcg cgaggctgag aagggtgcgt 180
acctggcaga gcgcaccccc acgctgcaga cccgtggcct gtccctcagt gccctgcagg 240
acctgtgccg ggagctgcac gcc 263

```

```

<210> 41
<211> 449
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 973815T6

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<220>
<221> unsure
<222> 308, 446
<223> a, t, c, g, or other

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<400> 41
cactcccagg ctccccaggt gccactgtcc ggggcccggc cctcacttcc agcggcctcc 60
aacgcggccc ttccctgccc ccttccggaa cttctggggc tggctgatgc ggttgtacag 120
cacgttgatc tcatatttct gctgtttcag cttcgccatc aggtcgaact tctcagactc 180
cagctgggtg atccagtcgc acagctcctg ggctttctcc cggagctgtt cctcccccat 240
gtagtcaatg tccagaggct tcttacgctc ggagaggatg cgcaccttca tctcccgccc 300
cgtctcngc ttaccacgct tctgttctgc cttgaccagg tagccgcca aatgggcccc 360
catgttggac agcaccttct ttttcttggc atcatcctct gcccgcttct tggcctcttc 420
ctcttccctc ctcattcttct ctccgncag 449

```

```

<210> 42
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2079906T6

```

```

<220>
<221> unsure
<222> 267-268, 279, 284, 287, 290, 295, 297, 299, 305, 312, 318, 333, 338-
339, 344, 351, 353, 356, 360-362, 364, 366, 378, 397
<223> a, t, c, g, or other

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```

<400> 42
gagacagaag gttttcatat aaatgcaagt ttgacaaagt cagcatcttt ctagctgtct 60
aaggaaagat cacttgtaac acagccagcc aggaggctgc tttgtttttt attataaaga 120
acactaacac aaatgcagca tgattgctgt aaaataaatg tgaattttgt acaaaagtcc 180
cagtccttcc gcagttctag gtttacagtc aggtcacaacc ttacttgccc cgctcctgca 240
tgaaaacaag tgcgttttat acagccnngg ccaccagng gcanagnttn aggcncana 300

```

taganttaaa antaaggntt ttttccgagc agncacanna attngaaccc ncngngnacn 360
 nntngnccac agaggggnaa taaaaagacc agttttnaag taagagga 408

<210> 43
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2852042T6

<400> 43
 ggtacagccc atgectgcag ccccttcagt ggggtggctcc agatagtgtt gtcctttcag 60
 ttgctgggag cggtagggcc cagccctttc cccttcctcc caccactatt cctaacctgg 120
 ggectggcag gggtaggtg atgtgatcta agggctccctg gagaagggtg gagtgggaaga 180
 ggcagggtct tgggttaaag ggaagattct gaggtctcag ggcaaaggga aagggtgtttg 240
 gatgaagact gaggcagtgc ctacctccct ccacatctga ggatcaagca ggtgtggcaa 300
 gaacagagcc ctggcctggg ctctgctggc cgcagcctca ggagccaggg ttaaggccag 360
 agataaatga agatttgagc cattgataaa tgccaatata tgtttcagggt atttcattag 420
 gatcctccca tcaagcaggg aactagatgt ttgagaagat caaacaacat cctgactttg 480
 ggggccttaa gacctggggt attctcctcc cagtcctagt gggaggctat ccattcccac 540
 aaagact 547

<210> 44
 <211> 335
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2368282T6

<220>
 <221> unsure
 <222> 305
 <223> a, t, c, g, or other

<400> 44
 aagaggagtg gccagctga gctgaggaag gtgaccactg agaaccatt caacctgctg 60
 agcaggctgg gcagaaagga gcaggacttg ggacagacga ctgaagatgc agagacccca 120
 tgggccccac ccctgggcct tcctcccatg ttgctgcagg ccacctcttc tgatcactgc 180
 tgggttgctt cctgggttaa gggccagaag gtgaaggaga tgggcttttc aggcacaga 240
 atgaggttga atgtgtgccc cacatcgctg aggtgttggg tttcaactct gaagttctcc 300
 aagcattatg atgaggaaga tggatcatct tagct 335

<210> 45
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2831248T6

<220>
 <221> unsure
 <222> 110
 <223> a, t, c, g, or other

<400> 45
 gatacacaag cttcattccc atctataatt ttatctggta ccattattca atttagatat 60
 attgcatagg atgtgccaac aatcactttt ataaccattc catgattttt cttgggtaat 120
 cccttttaat ggtgaacttc aggtcacaaac agtaactatc agttcaacta caccaagggt 180
 tccgaagaca atggcttctc caccacaagca ggttgatat aaattccaaa tagaacctgg 240
 catcaccctg aaggaattct aacttcacac tgttggggaa atttaccagg atggcttaag 300
 agtagactaa ctttacacag cacattaaaa aaaagacatt tattcagcgt cagcatcaga 360

ctgttacatt tagcaatcaa cagcatgggg tgcaaaaaaa aaaatctaca ttaaaaccct 420
 ttgttgaat gct 433

<210> 46
 <211> 538
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 182802T6

<400> 46
 gtgaaggaat ggaagattaa aaagaaagga aatcctttct catttaagag tagaaatgga 60
 gctctagtag tcaaaacgac cctcaagtta aaagagtccc taaattgttc agaatacagct 120
 actgagattt ggtaacagca aaccacatgg tctttcctct ggtatatgat taggacagaa 180
 accttcttgt tgggccaatg actgcgagcag ttttgatgac atgagggaata caataagttg 240
 gccattgtat gaaagggagg cagcaggacc tgagcttgtg cccttggtcac tttctgtatg 300
 aggccaggag ggtggagctt gatgacatct cctaacaata cccacatgca catctctgta 360
 atccttaaata cactgagtct tggacttcag gttctccttg tgccggtcca caagggaacc 420
 aaccactcc accgttttct gcttggttcc ctcccagctg tagagtggct tatacgccag 480
 atctcgctga gccttcttat aagagaaggt gaatacgcta tttgacaatg tgactatg 538

<210> 47
 <211> 219
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1003884H1

<400> 47
 gacctgtgga acacccccag gggcctcctg ttccgagact gaatgtggcg ggccaaactg 60
 cagaactgac gaaggagaga ggaagtgtgg ggggcctggc tgtggtggtc tggttactgt 120
 tgcacacaa gcctggcaga aagccatgga cttggaccaa gatgtcctga gtgccttggc 180
 tgaagtggaa cagctctcca agatggtctc tgaagcaaa 219

<210> 48
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 001120H1

<400> 48
 tctcttggtta aatacggcat catctgcatg gaggatttga ttcattgagat ctatactgtt 60
 ggaaaacgct tcaaagaggc aaataacttc ctgtggccct tcaaattgtc ttctccacga 120
 ggtggaatga agaaaaagac caccattttt gtagaagggt gagatgctgg caacagggag 180
 gaccagatca acaggcttat tagaagaatg aactaagggt tctaccatga ttatttttct 240
 aagctggttg gttaataaac agtacctgct ctcaaattg 279

<210> 49
 <211> 230
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1285380H1

<400> 49
 ttttcacatt tgattatgaa aatctccaaa catatgcaca agcagagatc atggtataat 60
 aaatcccttt gcaactccac tcagccctga caaccatcc acacacggcc aggccgtgtt 120
 atctacactg ctgcccactc ctctctccag ctccacatgc tgtacctgga tcattctgaa 180

gcaaattccg agcattacat cattttgtcc ataaatattt ctaacatcct

230

<210> 50
 <211> 199
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1636639H1

<220>
 <221> unsure
 <222> 153, 165, 179-180, 184, 195
 <223> a, t, c, g, or other

<400> 50
 cgacagggat ctgggcccac acaccacat caaactctcc taggcatgc caagaccag 60
 gacataggac ggaccctgg taccagaag aggagttctt gtcactaac ccggatccgc 120
 ctctgtcccc tgctctctgg agcttccat tcnaggagaa aaggntccat ttcccagcnn 180
 ttctttgccc ctganattt 199

<210> 51
 <211> 240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1985870H1

<220>
 <221> unsure
 <222> 106, 111, 118
 <223> a, t, c, g, or other

<400> 51
 tggccctttc gtccgtggcc agagcttctc agtgtggatc ttgtgtgaaa gtcactgcct 60
 caaggtggcc gtggatggtc agcaactgtt tgaatactac catccnctga ngaactgncc 120
 aacaatcaac agactggaat gggggggcgac atccagctga cccatgtgca gacataggcg 180
 gcttctctggg cctggggcg ggggtggggtg tggggcagtc tgggtcctct catcatcccc 240

<210> 52
 <211> 402
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1677936T6

<400> 52
 aaagaagcac tgcattgtcaa acattatgaa aatactatgt atgagagaat aaagtatttt 60
 ggaaaaacaa acggataatt ctttaaattc agaactactt tttatcttct gatatcatag 120
 aaacaatgtc attgtaaact tcttgagggg catccattgc ccagataaag tccaagtgat 180
 tgtaaaaagg aatctccttg tggtaaataa gattggggag ttttggaagc aaaaggccaa 240
 catcttgggg gtcagccaac aggtccttgc caccgttcca cactgcaatt ggtacattca 300
 tggctgtcac attgtagtag ggaggttggg actgatcata gtgcaccta ttctgaactg 360
 ggcttcccca gtcataagct tgggaatttc cagacttaac ag 402

<210> 53
 <211> 171
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> Incyte ID No: 910612H1

<400> 53

gaccagcgag gacagtctcc atcacctacg gcaccggcag catgacaggc atcctcggat 60
acgacactgt ccaggttgga ggcattctctg acaccaatca gatcttcggc ctgagcgaga 120
cggaaacctgg ctcttcctg tattatgctc ctttcgatgg catcctgggg c 171

<210> 54

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2594407H1

<400> 54

gcagaactca gagctgctct tctctgtgg ccagttgggg accagcatca tgaagtggat 60
ggtgggtgggc ttggtctgcc tccagctctt ggaggcagca gtggtcaaag tgcccctgaa 120
gaaatttaag tctatccgtg agaccatgaa ggagaagggc ttgctggggg agttcctgag 180
gaccacaag tatgatcctg cttggaagta ccgctttggt gacctcagcg tgacctacga 240
gcccattggcc tacatggatg ctg 263

<210> 55

<211> 105

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 963536H1

<400> 55

ggggtgcgct ttggagcaga gaggaggcaa tggccaccat ggagaacaag gtgatctgcg 60
ccctggtcct ggtgtccatg ctggccctcg gcacctggc cgagg 105

<210> 56

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 434377H1

<220>

<221> unsure

<222> 29, 60, 72, 84, 86, 144, 159, 162, 179

<223> a, t, c, g, or other

<400> 56

gcaaaactgg acaatgtcca aaccactna tgactgcatg acggagccga gccatgtgtn 60
tttacaactc gntgttgta catntnaggg aactgacct caggcacaac ttgcagaagg 120
caaggccctg ccctgccaa cctntgtggt caccatgna tnttccactg gaacgtttna 180
ctgcaaacac aacttgagga agtggcatca gtcaacagag aggggcaggg aaggagacaa 240
ca 242

<210> 57

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2121863F6

<400> 57

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agacgctgac ctctgggggc cacgctgagc acgaaggcaa accctactgc aaccacccct 60
gctacgcagc catgtttggg cctaaaggct ttgggcgggg cgagcgaga gccacacttt 120
caagtaaacc aggtggtgga gaccccatcc ttggctgctt gcagggccac tgtccaggca 180
aatgccaggc cttgtcccca gatgcccagg gctoccttgt tgcccctaata gctctcagta 240
aacctgaaca cttgg                                     255

```

<210> 58
 <211> 318
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1597231T6

<220>
 <221> unsure
 <222> 287
 <223> a, t, c, g, or other

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<400> 58
aaccacttaa agctcaccat ttcttttgat tttacaaga actttcttta tggaaggaaa 60
cattatcctc ttttcatctc ctagataaaa aggtaaaatta tttagcatat aaatgatttt 120
cccaaggcta attcggacga gacagtagag ctgggatttg gatctagttt tctctgagtc 180
aaattcctct gatctttctt gaaagtcact ttcattttgt cccaacacat ctgagcagac 240
accagtgggt tcagaacacg tgccatgtct tcttaacttc cttgccncct ttctttctta 300
acaatattac acctgagg                                     318

```

<210> 59
 <211> 154
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4174437H1

<220>
 <221> unsure
 <222> 36
 <223> a, t, c, g, or other

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<400> 59
tgcaggtgac ccagccatg aggaccatcg ccatcnttgc tggccattct cctggtgggc 60
cctgcaggcc cagggtgagt cacttccagg aaagagctga tgagggtaca acccagaagc 120
agtctgggga agacaaccag gaccttgcta tttc                                     154

```

<210> 60
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2182901H1

<220>
 <221> unsure
 <222> 239, 244, 256, 267, 270
 <223> a, t, c, g, or other

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<400> 60
cagcgaccct agccatgaga accctcacca tcctcactgc tggtctcttc gtggccctcc 60
aggccaaggc tgagccactc caagctgagg atgatccact gcaggcaaaa gcttatgagg 120
ctgatgcca ggagcagcgt ggggcaaagt accaggactt tgccgtctcc tttgcagagg 180
atgcaagctc aagtcttaga gctttgggct caacaagggc tttcattgcc attgcagang 240
gtcntgttat tcaacngaatt attctanggn actgcatgtc atgggaaaaa ccaa                                     294

```

<210> 61
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1747979T6

<220>
 <221> unsure
 <222> 12, 34, 69, 87, 97, 102, 131-132, 136, 151, 246, 250-252, 254-256, 262, 281, 297, 327, 350, 353, 356, 358-359, 367, 372
 <223> a, t, c, g, or other

<400> 61
 tattcagatg angcactttc aatgtatgtg tttnggggtg tgtgtatgtg tgtgcgcatg 60
 gggaacagng aggtggtgca ggataanaaa tactgttnagg gngaaggaac actcccccaa 120
 gctggcagga nnatgnggca gcaatgtaca nagcctcggg agtagagtcc agggacaggg 180
 aggtgggttc aaggctggct tggaggccaa ggggtgtcccc cttagctcaa gaagccacag 240
 aaattngtgn nncnnngggg tnggcccatg agcatgggca nctggttctt gtgggtnatc 300
 ttgattgtac agggcgtctg catccanggt tctccgtcaa tttgcatggn aangntnnt 360
 gtggtgngga angtgatctc agagcacttg gccagccgac gtccagca 408

<210> 62
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1630553H1

<400> 62
 gatttcttca cctccctggg gctgctgccc gtgcctcctg agttctggaa caagtcgatg 60
 ctggagaagc caaccgacgg gcgggaggtg gtctgccacg cctcggcctg ggacttctac 120
 aacggcaagg acttccggat caagcagtgc accaccgtga acttggagga cctggtggtg 180
 gccaccacg aaatgggcca catccagtat 210

<210> 63
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 478960H1

<220>
 <221> unsure
 <222> 3, 21, 33, 67, 151, 162, 165, 262, 295
 <223> a, t, c, g, or other

<400> 63
 ttncctgccc gcaaggccat ntgggtcacg ggntggggac acaccagta tggaggcact 60
 ggcgcgntga tcctgcaaaa ggggtgagatc cgcgatcatca accagaccac ctgcgagaac 120
 cttctgccgc agcagatcac ggcgcgcatg ntgtgcgtgg gnttntcagc ggcggcgtgg 180
 acttctgcca ggggtgatttc gggggacccc tgtccagcgt ggaggcggat gggcggtatc 240
 ttcagggcgg tgtggtgagc tngggagacg gtgcgggtcag aggaacaagc caggng 296

<210> 64
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> Incyte ID No: 2132487H1

<400> 64

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tgtctctggc tgtctcgagc agtctagaag agtgcattctc cagcctatga aacagctggg 60
tctttgggtca taagaagtaa agatttgaag acagaaggaa gaaactcagg agtaagcttc 120
tagcccccctt cagcttctac acccttctgc cctctctcca ttgcctgcac cccaccccag 180
ccactcaact cctgcttggt tttcctttgg ccatgggaag gtttaccagt agaatccttg 240
ctaggttgat gtgggccata ca 262
```

<210> 65

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2921152H1

<400> 65

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catccctctg ctctctggcc tccagcctcc cagcagcatg gctttcaccg gcaagttcga 60
gatggagagt gagaagaatt atgatgagtt catgaagctc cttgggatct ccagcgatgt 120
aatcgaaaag gcccgcaact tcaagatcgt cacggagggt cagcaggatg ggcaggactt 180
cacttggtcc cagcactact ccggggggcca caccatgacc aacaagttca tgttggcaag 240
gaaagcaaca tacagaccaa tgggggggcaa gacgttcaag g 281
```

<210> 66

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1846428H1

<220>

<221> unsure

<222> 216, 222, 225, 229

<223> a, t, c, g, or other

<400> 66

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caggaggggt caccgtgcag gatggaaatt tctccttttc tctggagtca gtgaagaagc 60
tcaaagacct ccaggagccc caggagccca gggttgggaa actcagggaac tttgcaccca 120
tccttggtga acctgtggtt cccatcctct gtagcaaccc gaactttcca gaagaactca 180
agcctctctg caaggagccc aatgccccagg agatanttca gnggntggng gaat 234
```

<210> 67

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2796143H1

<220>

<221> unsure

<222> 3, 27, 43, 57, 64

<223> a, t, c, g, or other

<400> 67

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gcnctgagc ctggcccatg gcgcaantgg tggcgggctg aangcggagc cgtggcngtt 60
tctncgcccc tgctgggatc ggctgtctcc tcttctgggc gtcttgccgg ccggaccgac 120
aacgcagcaa tccaacgaac ttctgcctgg tgtcgaaggt ggtggggcaa gatgccgggc 180
ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgcccagctg tttgtgtatg 240
ggggtgtga cggaaaca 258
```

<210> 68

<211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1805613F6

<220>
 <221> unsure
 <222> 155
 <223> a, t, c, g, or other

<400> 68
 gtcaccctgc cctgcaccta ccacacttcc acctccagtc gagagggact tattcaatgg 60
 gataagctcc tctcactca tacggaaagg gtggtcatct ggccgttttc aaacaaaaac 120
 tacatccatg gtgagcttta taagaatcgc gtcanaatc caacaatgct gagcagtccg 180
 atgcctccat caccattgat cagctgacca tggctgacaa cggcacctac gagtgttctg 240
 tctcgctgat gtcagacctg gagggcaaca ccaagtcaag tgtccgcctg ttggtcctcg 300
 tgccaccctc caaaccagaa tgcggcatcg agggagagac cataattggg aacaacatcc 360
 agctgacctg 370

<210> 69
 <211> 235
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1431273H1

<220>
 <221> unsure
 <222> 20
 <223> a, t, c, g, or other

<400> 69
 tgacactgac tgggcccacn aggacagtgc tcaggctgga gaagtggatc acaccttggt 60
 gggacaatgc acaggtgccg gctacttcat gcagttcagc accagctcgg ggtccgcgga 120
 agaggcagcc ctactggagt ctcggtattct ttaccctaaag aggaagcagc agtgccctgca 180
 atttttctat aaaatgacgg gaagtccttc agacagactc gttgtctggg tcagg 235

<210> 70
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1804662H1

<400> 70
 ctgtgaccaa gttgactctg aggccctggg gggctgcctg cggggcaaga gtaaagagga 60
 gattcttgca attaacaagc ctttcaagat gatccccgga gtggtggatg gggctcttct 120
 gccaggcac cccaggagc tgctggcctc tgccgacttt cagcctgtcc ctagcattgt 180
 tgggtgcaac aacaatgaat tcggctggct catccccaaag gtcattgagga tctatgatac 240
 ccagaaggaa atggacagag aggcctccca ggctgctct 279

<210> 71
 <211> 269
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2921194H1

<220>
 <221> unsure
 <222> 265
 <223> a, t, c, g, or other

<400> 71
 gcacctctc gccagcagcc gtccggagcc agccaacgag cggaaaatgg cagacaattt 60
 ttcgctccat gatgcgttat ctgggtctgg aaacccaaac cctcaaggat ggcctggcgc 120
 atgggggaac cagcctgctg gggcaggggg ctaccaggg gcttctatcc tggggcctac 180
 cccgggcagg caccgccagg ggcttatcct ggacaggcac ctccaggcgc ctaccatgga 240
 gcacctggag ttatcccgga gcacntgca 269

<210> 72
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 395368T6

<220>
 <221> unsure
 <222> 29, 77, 88, 91, 94-95, 102, 105-106, 153-154, 157, 179-180, 182, 187,
 211-213, 219, 229, 255, 260, 270, 274, 279, 286, 291, 300-301, 303, 305,
 311, 313, 316, 319-321, 323, 332
 <223> a, t, c, g, or other

<400> 72
 atatttttat gtgaaatgtg gttgtatana ttagaaataa gatttacaca tttcaaagca 60
 cactactgca aaaatanatt atttttancc nccnactct cnttnnagct ttgcctgctc 120
 agatctcaat ctaccagta gccctttatg ctngggnttt ctcaagaccc tcttctcnn 180
 gngagtngac tcttcctttt tcttcccat nnngtgcng acaattttnc attaggttct 240
 tacttaggat cactnttacn atcatcttcn gttncatcng atcttncctt ntgtttgcn 300
 ntncnttgct nancangcnn ncnccaacta gnac 334

<210> 73
 <211> 301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2182861H1

<220>
 <221> unsure
 <222> 11, 27, 47, 50, 53, 56, 277, 289, 298
 <223> a, t, c, g, or other

<400> 73
 cccaccccca nactgtgca gacgacnacc actcagtgtc tggattncan tgmccngtcc 60
 actctccaca ccagcatca tcaggaccac aggccctgagg ccctaccctt cctctgtgct 120
 tatctgctgt gtccgaacg acacctacta cgcaccaggt gaggaggtgt acaacggcac 180
 atacggagac acctgttatt tcgtcaactg ctactgagc tgtacgttgg agttctataa 240
 ctggctctgc ccatccacgc ctttcccaa caccangcc ctccaagtng gacggccnag 300
 g 301

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1806436T6

<220>
 <221> unsure
 <222> 420, 423-424, 426-427
 <223> a, t, c, g, or other

<400> 74
 aaacatttca atactttttg ctacttctat aatcttttag caaggcagtc agttacagtc 60
 caaatgggaa aatataaaca aaattacaca ttttatcttt taaaatctac ttttaattctg 120
 ttataaaaatt tataatgcag tttaaactat gatttctctc cacttgatga tgtctctcac 180
 tctgttcctt taattacgaa gtctctgaag actctgaact tgactgagga aatgttaaac 240
 agatacctct tcataattct gtaagtgttt gcttttaact ttgaataaat gtcatatcta 300
 aacaaatatt aaaaagtatt taacatctca tacagtcaga gttcactggc gctttgttcc 360
 agcctggaca ctgaccattg aaaaatagat gcctttctgt gccagcagct gctgatgcgn 420
 gcnnngnncct tggactctgg ccattctgaa acaccactat taagtctgca ttctggatgg 480
 tggacaggcg gtgagcaatc acaatgcagg tgccgccttc tctgggcttt gtccagg 537

<210> 75
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2922143H1

<400> 75
 gtttggccag atttgcccaa cataacaata gataaaactc taacggaaga tgaagctgtt 60
 aatgcttcca gagtcatgt agctttccca gatttcttca ggacttccac agcagagtgg 120
 tgggcccagag aaattgtgga cttttacaat gaaaagatga agtttgatgg tttgtggatt 180
 gatatgaatg agccatcaag ttttgtaaat ggaacaacta ctaatcaatg cagaaatgac 240
 gaactaaatt atccacct 258

<210> 76
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 876720H1

<400> 76
 ccgacaccgg gccttgcgca cagcccccat ccagccccgt gtctgggagc ctgtgcctct 60
 ggaggaggtc caattgggtg tggagccaga aggtggagca gtagctcctg gtggaaccgt 120
 aaccctgacc tgtgaagtcc ctgcccagcc ctctcctcaa atccactgga tgaaggatgg 180
 tgtgcccttg ccccttcccc ccagccctgt gctgatactc cctgagatag ggcctcagga 240
 ccagggaacc tacag 255

<210> 77
 <211> 254
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1910091H1

<400> 77
 gacgagagga cccgcacccg ggccccccagc ccggactccc tgctccacac acctctgatt 60
 atcaaggagc tctccaaggt gtacgagcag cgggtgcccc tcttgccctg ggacaggctc 120
 tccctcgcgg tgcagaaagg ggagtgtctc ggctgtctgg gcttcaatgg agccgggaag 180
 accacgactt tcaaaatgct gaccggggag gagagcctca cttctgggga tgctttgtcg 240
 ggggtcaaaa atca 254

<210> 78
 <211> 61
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2174130T6

<400> 78

atagaagacg ggtagtacct gaagtgggtc cacttccttt atttgggggtt gtttcatgaa 60
a 61

<210> 79

<211> 247

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2219077H1

<220>

<221> unsure

<222> 231

<223> a, t, c, g, or other

<400> 79

gctgattgga gtcagctgga acataccact gcctctagac taaggccagc agatttagca 60
aatacagact gcccagttc attgaatttt agataaatga aataaatcta taaggttaag 120
tatgtcccca gaactgcatg gaacatgtta atctaaacaa tgatttggtg ttcacctgaa 180
attcaaattt agctgggtgt cctgtatttc atctggcaac cctacttcag ncccaggtgt 240
aaggtac 247

<210> 80

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1965041H1

<220>

<221> unsure

<222> 6-7, 27-28

<223> a, t, c, g, or other

<400> 80

gaaggnngga aagaaggag ggaaacnngg agaaaggga aaagaagaaa aagagaaaga 60
tgaaaatagg aacaaataaa gacaaacaac attaagggcc atattgtaag atttccatgt 120
taatgatcta atataatcac tcagtgaac attgagaatt tttttttaat ggctcaaaaa 180
tggaactga aagcaagtca tggggaatga atactttggg cagtatcttc cggatgtctt 240
cttagctaa 249

<210> 81

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1649959F6

<220>

<221> unsure

<222> 282

<223> a, t, c, g, or other

<400> 81

```

cgctcctcct cgcccgcgcg taggtccatc ccggcccagc caccatgtcc atccacttca 60
gctccccggt attcacctcg cgctcagccg cctggaggcg agtgaggaca tgcaggatgt 120
ggtggaggac ttcaagaata agtacgaaga tgaaattaac cgccgcacag ctgctgagaa 180
tgagtttgtg gtgctgaaga aggatgtgga tgctgcctac atgagcaagg tggagctgga 240
ggccaagggt gatgccctga atgatgagat caacttcttc angaccctca atgagacgga 300
gttgacagag ctgcagtcctc agatctccga cacatctgtg gtgctgtcca tgggacaaac 360
agtcgctccc tggacttgga cggcatcatc
390

```

```

<210> 82
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1222317H1

```

```

<400> 82
aaccctctct cctcagcgct tcttctttct tggtttgatc ctgactgctg tcatggcggtg 60
ccctctggag aaggccctgg atgtgatggt gtccaccttc cacaagtact cgggcaaaga 120
gggtgacaag ttcaagctca acaagtcaga actaaaggag ctgctgaccc gggagctgcc 180
cagcttcttg gggaaaagga cagatgaagc tgctttccag aagctgatga gcaa 234

```

```

<210> 83
<211> 314
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2510171H1

```

```

<220>
<221> unsure
<222> 48
<223> a, t, c, g, or other

```

```

<400> 83
atgaagtcca gcggcctctt ccccttcttg gtgctgcttg ccctgggnac tctggcacct 60
tggtgtgtgg aaggctctgg aaagtccttc aaagctggag tctgtcctcc taagaaatct 120
gccagtgcc ttagatacaa gaaacctgag tgccagagtg actggcagtg tccagggaag 180
aagagatggt gtcttgacac ttgtggcatc aaatgcctgg atcctgttga cccccaaac 240
ccaacaagga ggaagcctgg gaagtgccca gtgacttatg gccaatgttt gatgtttaac 300
cccccaatt tctg
314

```

```

<210> 84
<211> 215
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1988674H1

```

```

<400> 84
gtgggagccg atgacctatg ccaagagtgt gaggacatcg tccacatcct taacaagatg 60
gccaaaggagg ccattttcca ggacacgatg aggaagtctc tggagcagga gtgcaacgtc 120
ctccccttga agctgctcat gcccagtgcc aaccaagtgc ttgacgacta ctccccctg 180
gtcatcgact acttcagaa ccagactgac tcaaa
215

```

```

<210> 85
<211> 120
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<223> Incyte ID No: 1672640H1

<400> 85

ggcctccgcg tggcccagtg ctcccagaag ccctgtgagg acagctgtcg gtcgggcttc 60
acttacgttc tgcatgaagg cgagtgtgtt ggaaggtgcc tgccatctgc ctgtgaggtg 120

<210> 86

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1926543H1

<400> 86

tggacatctt cgagatcaat gaggcctttg caagccaggc tgcctactgt gtggagaagc 60
tacgactccc ccctgagaag gtgaaccccc tgggggggtgc agtggcctta gggcacccac 120
tgggctgcac tggggcacga caggtcatca cgctgtctaa tgagctgaag cgccgtggga 180
agagggcata cggagtgggtg tccatgt 207

<210> 87

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1504934T6

<220>

<221> unsure

<222> 13, 234, 251, 289, 426

<223> a, t, c, g, or other

<400> 87

gctcatggcc tgnnggactg cagctcattt ggaaggcact gggtttttgcg cccaagtgga 60
ctgtttccag gaggtgccac tggagggaaa agggctgcct ggggccaggg aggctgcctg 120
gttctgcctc cgggctggg tcagtggctt tctgtcccc aggcctggag gacctgcag 180
ggctgtttt ctctgatcc ctcagggtgg gcattgggaca ggtgtgtgcc agtnccagct 240
gtgtgccagt nggcaggta cagcttcttc ttggggcagt gctgcaggnc cgccctcagg 300
gcctccgtca cgcgggtccac attctcgagg gtggcattgc agcccagcag gccgatccgc 360
agcaccttcc ccgtggaggg cccaaggcca cccatgatct caatgtcgaa gtggtccatg 420
acgtanctga cgatgtctct ccagtcatag ccagcgggta cagccacagt ggtgact 477

<210> 88

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2512879T6

<220>

<221> unsure

<222> 188, 463

<223> a, t, c, g, or other

<400> 88

agctgatgtt caacacttta tttagttctc atttggattt taaacatttg cttgaaaaat 60
aattttacat caatttccat ttctttggaa agccccaaa tgtaatttat tgataaaatc 120
tgtgatgagc agaattaatg atatttccca gctgttgcct cagatcatgt agggtagagg 180
aggctganga ctgccacaag ggaaaacatc tgtattgtct caaaacatca gaatggtacg 240
gatacttttc ccagagtga gagggtcaaa tcttctcatt attttttcaa aaggtaaaac 300
atgggttatt aatgcattca atgaaaactt cttagccata aaatcagcca caagttttgg 360
gacacattct ttacttttaa agccaccaag aatagctccc ttccaggtag gtccagtcag 420

tagcagcata gggttcattg agagggtttgg gatcaggagg tanccctacg atgacacttg 480
 tgccacatgc ctcatgacac ataccagga agccatcatg gtgtcagccg 530

<210> 89
 <211> 360
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1359832T6

<220>
 <221> unsure
 <222> 134, 172, 288, 298, 319, 321, 327-328, 359
 <223> a, t, c, g, or other

<400> 89
 atatgaaata gaatgtagat attgcaacaa tagcattttt ggagacagct acctccttta 60
 ccaggaataa tctttgcatg tcacatttag agataaagct caaaatgcaa atccttcccc 120
 tgagagtggg aaancattaa caaatgagag tgggaaaagc attaaciaag cnttaacaca 180
 ggtctttaca tattcaaaat attaaactaa tgctaggatt atagacttga ttttaagaca 240
 tggtagttaa tagaaaagt cttagattgaa aacaattttg caaaaatnta catttgtnta 300
 tgtgtatata tgtatgtgna natatanntc tactagggaa atatagtgtc taagggtgnt 360

<210> 90
 <211> 597
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1583076T6

<220>
 <221> unsure
 <222> 201, 260
 <223> a, t, c, g, or other

<400> 90
 gttgatgttc aacactttat ttagttctca tttggatttt aaacatttgc ttgacaaata 60
 atttcccatc aatttccatt tctttggaaa gctcccacgt gtaatttatt ttttaacatc 120
 ctgaagagca gaattaatga tatttcttag ctgttgctcc agatcatgta gggtagagga 180
 ggctgaaaac tgctacaagg naaggcatct gtattgtttc aaaacgtcag gacggtacgg 240
 atactcttcc cagagcgaan aggtcaaacc ctctatttat tttttcaaaa ggtaaaatat 300
 ttgtatttaa tgcattccag gaaaacttct tagccataaa gtcagccaca agtttgggga 360
 cagattcttt actcttaaag cctccaaaaa tagctccttt ccacgtgcgt ccagtcagta 420
 gcagcatagg gtttattgag aggttctggg aatcaggagg taccctaca atgacacttg 480
 tgccacatgc ctcatgacaa cataacaggg aagccatcat ggtgtcaagc cgaccgatga 540
 cttcaaacga aaaatccaca cctccatcag tcatttcctt tagcacttcc tgaatgg 597

<210> 91
 <211> 359
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 139838H1

<220>
 <221> unsure
 <222> 5, 13, 17, 23, 34, 38, 44, 68, 89, 159, 161, 310, 346, 357
 <223> a, t, c, g, or other

<400> 91
 cacnggggaa agncagncct ggnctataca accncagntg gggnatcatg tacttttcatt 60

```

ggagtagntg ctggtagcaa aggattgant gtttttccag aggagctaataatcggccgt 120
actataaatg gaacattctt tgggtggttg aaaagtgtng nttctatccc aaagctggtc 180
actgactata agattaagaa attcaatctg gatgcactgg tgaccatac cctgcctttt 240
gacaaaatca gtgaggcatt tgacctaatg aaccaaggaa aaagcatccg aacaatcctc 300
atcttttgan gatgccagga gcaattcgga atactatctg attgantgtg aacctgnct 359

```

```

<210> 92
<211> 249
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<223> Incyte ID No: 1344654H1

```

```

<400> 92
ggagggcagg catcggggag cggggagcct gacctcctc tttcttccaa acaggctcag 60
aggggtgtcct gcaccggggc ctgggcagga gggagggtgct tctagtcttg ccaggagaca 120
ggttagctgc tccccacgtc agctgggaca ccccgacttt tgtttaccag agaaaaaggg 180
agggggagag ggctgccttt ggacttgctc cgggacacct aggctagggt ggggagagac 240
gggccctgg 249

```

```

<210> 93
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2513979T6

```

```

<400> 93
gacaggagct ctaggactgg ccagtgggtg ttctagaggc cagctggggt tggaagacaa 60
tggctctggac acttacttgg gtggcaggct gtgttccaag ttccacgaaa tagctcaaga 120
agttaaccag ttccgttcca gccttcttga tcagggggtgt cagctgctcc tttgactttt 180
caaagtaaga cttggcctcg gcctgaagct ctggggctct tgaccttctc catcaggctc 240
ttgccatagt cagt 254

```

```

<210> 94
<211> 142
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2369312H1

```

```

<400> 94
agaaactcaa gattgactca tgaggacctg aagggtgaca tcccaggagg ggctcttgaa 60
atttcccaca cccagcgcc tgtgctgagg actcctcaca tgtggcccca ggtgccacca 120
ataaaaaatcc tacagaaaat tc 142

```

```

<210> 95
<211> 264
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2048364H1

```

```

<220>
<221> unsure
<222> 257, 260
<223> a, t, c, g, or other
<400> 95

```



```

ctgccagagt ctggtctctg gacactatgg gcacacgact cctcccagct ctgtttcttg 60
tcctcctggg attgggattt gaggtccagg ggaccaacag ccccagcaag atgagatgcc 120
tagcccgacc ttcctcacc aggtgaagga atctctctcc agttactggg agtcagcaaa 180
gacagccgcc cagaacctgt acgagaagac atacctgccc gctgtagatg agaaactcag 240
ggacttgtac agcaaanttn tttt 264

```

<210> 96
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 085246H1

<220>
 <221> unsure
 <222> 15, 18-19, 33, 36, 39, 46, 67, 105, 125, 140, 204, 207, 229, 232,
 272, 274
 <223> a, t, c, g, or other

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<400> 96
ctcatccaca atganttnnc cagtgetcat ctngtncng agtttncct gccatgtggc 60
tattgcngga cggatgggcc gttaaaaaca ttctatgagc caggngaaga gattacgtat 120
tcctncaacg gggctatgtn tccgaggagg gatgagaaag tttatctgcc ctctcacagg 180
actttggccc atcaacactc tganatntac acccagagta tgtccttng cntgaatctt 240
agaaaatggg agccgtacgc tatacgactt tngnatatcc caaca 285

```

<210> 97
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 166337T6

<220>
 <221> unsure
 <222> 45, 96, 129, 270, 277, 300, 307, 322, 333, 353, 364, 366, 373-374,
 385, 391, 397, 408
 <223> a, t, c, g, or other

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<400> 97
gaatgacatg gacacatagt acctttccac atgtggtagc tttgnctcct gattccaaga 60
gtcccaactct atgtatgggg gcttatgtaa gtgtgnttat ttttaatgcc agcaaatttt 120
taattggana tcaatgtaca ctctcttttc taaggataag tcttttgcca agttagaaaa 180
tataagcttt taaatttcaa aaaagttaga atttccacat cttgaatttt acaccaagag 240
ggaatttgta gagttttatac taattggaan aacattnttc tgaaagaaca agtctttagn 300
aggatanctc tatgcttaag anaatgatta gcnttctaata tatgccatta acnatgagat 360
ttanancgga tgnntccaca tttanttagg ngggttnagg tagtcaanag gcttgtga 418

```

<210> 98
 <211> 566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 138274T6

<220>
 <221> unsure
 <222> 539
 <223> a, t, c, g, or other

<400> 98

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acaatgataa cctgcaaact gcagaaagcg ccacggggtt caagctcctc accttcggaa 60
catcacccta tccttccccct tcccttaaaa tcctagatga aaattcccga gaaagcagaa 120
gaggcccca gatgggcgga tccccaatcc cggaccctcg cggcagggtcg aggcattgaa 180
gaaataaatt aaaggagagg tggctcctgg ctggccttgt ccagctctgt ctgcagacc 240
cagcggtagg gcctctggca gacgtcgtcg ttccagcggc cgtcgtcggg gaagtgggca 300
cagtcctcgc ctctctcag cccgtggcgg taccagtcgt cgggctgctc cggcctccag 360
ttcttgaagc ccgtctcgta gtccgtcccg tccacccact tccaggggccc gttttgggtcg 420
tggaggccca tccagggtgt cacagggcct atgtgggtgt ggacaaattt ctgctcctcc 480
caggaacgtg accaccacca ggtgcgcgtc ctccagccgg cagtagttgt cggcgtaanc 540
caaggccttt cccggaagcg agaaga                                566

```

<210> 99
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1633340T6

```

<400> 99
aatattaagg cataacaaag taaactgaaa tgaagtttag ttatcaatat tcatctctga 60
gaaagtgtgt aatcagttcc tttagataac atgtgggtca ggttgattta ataatggggc 120
tggggtgtct gcattctctat gctgcttttc cagcactgta ctgcctgtag tggaaaagac 180
tcttgagtc cacttgcga gatttctgca cagcttcagc aaaaagtgtg gtcacctgaa 240
aattagtgag gagagggatt ccactatcaa cagctgtcct ccgaatcaca taattatcat 300
ggacaaattt agtggtgttg ttgggaaggt taatcactag gtcaatgctg ccatctctaa 360
tcaattttct gatggaagag aggctgggat tctgtccttc ttgagacggc catgccactg 420
gggttgagg gacattgttg gcgtgagcca gtctgatgt                                459

```

<210> 100
 <211> 83
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1982416H1

```

<400> 100
cagagagttc tacagttact ccaacattac caggtgaaac tctcacttac gtatggaaaa 60
tcccagaaag atctggagct gga                                83

```

<210> 101
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 946822H1

<220>
 <221> unsure
 <222> 19, 21, 34, 114, 130, 135, 139, 143, 210, 217, 243, 261, 277, 299
 <223> a, t, c, g, or other

```

<400> 101
gaaaaactgt gaattattna nacggaagct ctgnagcctg gacaacgggg actgtgacca 60
gtctctccac gaggaacaga actctgtggt gtgctcctgc gcccgcggt acancctggc 120
tgacaacggn aaggncatgna ttnccacagg gccctacccc tgtgggaaac agaccctgga 180
acggaggaag aggtcagtg cccaggccan cagcagnagc ggggaggccc ctgacagcat 240
ganatggaag ccatatgatg nagccgacct ggaccnacc gagaaccctc tcgacctgnt 300

```

<210> 102
 <211> 210
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2517330T6

<220>

<221> unsure

<222> 204

<223> a, t, c, g, or other

<400> 102

```
cactgtcctc tggggcagcc ggcagaagat ccctgcctt ggggtggcagg gccctgatct 60
gaggctggtt tcacggagga caggcagcgg gcacccact ggtggggtcg tctctcgggg 120
cactgacttc tcagcactgg agctgtgtgc cggcctcacc tcctcacttc gtccaggacg 180
tggaactggt ctgcagcctc gcanaagccg                               210
```

<210> 103

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2516489H2

<220>

<221> unsure

<222> 94, 134, 152, 173, 176, 181, 189, 201, 203-204, 224, 229

<223> a, t, c, g, or other

<400> 103

```
ctgagatcca ccagggtttc cagcacctgc accaactctt tgcaaagtea gacaccagct 60
tagaaatgac tatgggcaat gccttggttc ttgntggcag cctggagttg ctggagtcac 120
tctcagcaga catnaagcac tactatgagt cngaggctct ggctatgaat ttncangact 180
ngggaacanc cagcagacag ntnnacagct atgtcaagaa taanacacng ggggaaattt 240
t                                                                241
```

<210> 104

<211> 228

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 088741H1

<220>

<221> unsure

<222> 49, 98, 126, 185

<223> a, t, c, g, or other

<400> 104

```
gaaacacctg ccaggaccac agcaacaggc ctttaatttg ctgcaaggnc tggaggactt 60
catagccaag aagggtggagc acaaccagcg cacgtgtntc ccaattcccc acaggacttc 120
atcgantcct ttttcatcca catgcaggag gcaccgagac ggtcagcacc accctgcgct 180
atggnttctt gctgctcatg aagcaccacg aggtggaggc caaggtcc          228
```

<210> 105

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 168865T6

<220>
<221> unsure
<222> 496
<223> a, t, c, g, or other

<400> 105
atctaaatta tcattcatta atcacttttc tgtgttttac agtgataaca tattaaaaag 60
tcagcattag aaaagtatta gcatatgcag caattaatac aagtgttaca gagtatgaat 120
aattgcagat atatttgtgc agtgacctga acaactctcc ttaatggagt ttggatgctt 180
atgggatatt gagtgaatgg gaagatttga tgagaggtca gagaagacat aatagtggga 240
atgtccttga taaaaaaaga gttgcaggtg atagcagatc ggcagccaga tgggctagca 300
ttcttcagac agggatgaag cagatctggt atgaggggtg cagagaaaca atccctttgg 360
taactgcagt agtattgagg ttctttaaat catcaacaga tttcagggtta aagtctgtga 420
aaattgtggt tagaaataaa aatagctcca tgcgggcaag tccttctcct gcacaattcg 480
ttttctgctg agaangcca tga 503

<210> 106
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 231779H1

<220>
<221> unsure
<222> 9, 294, 310, 376
<223> a, t, c, g, or other

<400> 106
gaatggacnt tcttgcattt gcctctttca agaaaatctt gtgccttgag aacaccagag 60
acctcaaatt actttgtgaa tagaactctg aaatgaagat gggcttcac caatggactg 120
cataaataac cggggattct gtacatgcat tgagctctct cattgtctgt gtagagtgtt 180
atacttggga atataaagga ggtgaccaa tcagtgtgag gaggtagatt tggctcctct 240
gcttctcagc ggactatttc caccaccccc agttagcacc attaaactct cctnagctct 300
tgataagggg aatcaaccaa tttctcaata aatttccttc acaaaattta ttaattggaa 360
ataaaggatt atttttaatg gctctaacc 390

<210> 107
<211> 210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 234123H1

<220>
<221> unsure
<222> 110, 178
<223> a, t, c, g, or other

<400> 107
attccggccc tgatgggtcac ggcggagaag gacttcgtgc tcgttcctca gatgtcccag 60
cacatggagg actggattcc ccacctgaaa aggggacaca ttgaggactn tgggcactgg 120
acacagatgg acaagccaac cgaggtgaat cagatcctca ttaagtggct ggattctnat 180
gcccgaacc caccggtggt ctcaaagatc 210

<210> 108
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1833801T6

<400> 108
cacagtaaca attgaaactg cctcgactaa attttaagtt tctggggcag caccaccta 60
aggcagtgaac tgccttttta aaagacaggg ttctgacatt cagagatttc tgtttctcta 120
tccatcattt ttgggcatct tgaatcacct gatttagagt cagtgcacac ctgactggat 180
tggttctgct ctgcgtgggc ggggtgagacc cccagaccca cgtccacagt gcacctgatg 240
ttctcccagc ggctgctact tcccgaagga ggccaggtag gcataccaga acagagctgc 300
caggttggcg aagagcaccg ggaacttcag agggacgtag ttgatgttga tgaactgtag 360
tggtgctccac acccgccagt tcctctcag cgccggccag aagcccccc tcatcttggc 420
ggcgaaggct gaggcgtctt t 441

<210> 109

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1923613T6

<220>

<221> unsure

<222> 198, 315

<223> a, t, c, g, or other

<400> 109
ggatgagcac ggcattggggc ttgaggtgtg tggagggagc tcagcaggcc cagaagcccc 60
cttccaccgg caaagtggaa cccgtgggtca tgccacttcg gtcactcagc agaaagagga 120
tggtgttcac cagtgctctt acctcagcaa acttgccaag tgggattcgg ttcagcatag 180
tcttgccctt gtgggggnca ctccagggtgg cctggcccat ggacgtcatc accactgtgg 240
ggtttactgc attcactcgg atcttgtggg gcccgagctc tagggccatc accttgggtca 300
gcatgtccag ggcanccttg gtggagcagt agacgc 336

<210> 110

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2058620T6

<220>

<221> unsure

<222> 120

<223> a, t, c, g, or other

<400> 110
ctcacactga aaaaatacta acacagctca tatataaatt acttatctat aagaacaatt 60
atagaaggaa tctaaatggg gcaattttta caaaccaggc aaaatatcac atatacctgn 120
ggataaggta actccaagcc atgagtataa gattaaggca gttactttat ttgaacaag 180
gaagtggcat aagcaactca gtgtgtgccc cttaggggtg gagctcttcc ccctaccact 240
ccccaccca aggcattcatt ttggagaaaa aagtgtcttc tatctggcta gctgtgttat 300
ctaggattgc accttcttac acggcaggcg cggcatcacg tccagatggg catctaagga 360
ac 362

<210> 111

<211> 162

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1930954F6

<400> 111

aaaatgactg gcgtgatgcc tggaaccaag gtgctgatcc taccacctac tgctaccttc 60
cttagcttca ccctggctag aaataatcac gaggggttggg tttgctttgg aaaatgcctg 120

tctctctact tgaatgataa agaattaaat tagatctctc tg

162

<210> 112
 <211> 186
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1511658H1

<220>
 <221> unsure
 <222> 118
 <223> a, t, c, g, or other

<400> 112
 ctcgagccgc aaagaagtta ccaaagaagt ggtgacctcc gaagatgggt ctgactgtcc 60
 cgaggcaatg gatttaggca cattgtctgg catagggtact ctggatgggt tccgccanag 120
 gcacctgat gaagctgect tcttcgacac tgccctcaact ggaaaaacat tcccagggtt 180
 cttctc 186

<210> 113
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2590673T6

<400> 113
 ttcatacatt gtttaaaagg aaaaaggaat catgtcaaaa tgtttcagga aatgatttaa 60
 gttagatata aagaacatag ttctgatttt gaagtgttag tggaactcaa acagaaatga 120
 ttagtgctct cttaatgatca tgacatgatt cttaaagtgg ctatttcaga gcctagaaat 180
 aacactgtat tactgactaa tgtctacaga gtactgcaaa agatgctgaa tagaaaagca 240
 ggtggtgtga aaattttaat ttttaaatag caaagccctt gtctgggtat tgtcagtaac 300
 tttcagaaat cctagagaaa atgatgatta ggtcaacaca aggaaaacag cgattaacag 360
 aataggaatt gcaaagagct tcagccaatg gaaaaagaag caaggcttct gaagtctccc 420
 gaccactcgt gtctgcatgg gtttcaacga ccggtccac tgggtcagta tggcatttct 480
 ggctcctggc cactgccctg gggccaccag cctaaactgg tag 523

<210> 114
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1995380T6

<400> 114
 tataggtttc tcatacgtgc aattctttta tagattcaaa agtgaggtgt tgtgtgaatg 60
 ttacaaatca taacatgatc caaatttata agaaagtact ttaaaaatca gacaaaagac 120
 ttaagaatta ctatgtttaa tttctaattcc aaatgtaaaa caagaatata ggatattggc 180
 aatgctaata ttcaaatgg gttacccag ttcataattc ctctgctccc ctctaccta 240
 aaatctaaga aagtattcat tataaattgg aagtacagaa ttcttaaaaa gccaaactgga 300
 tgttgagttg tatgattttc tttacaggta caatttactt ttcagcaacc tgtaagccat 360
 ggaaagagta actccatc ccaacaaaaa aactcaaagc tctatttggc tggggaaggg 420
 gtgtccaata tgcaatgggt tggtagatcc gtgctccgac aaatagtctg aagtgcagga 480
 tgggctgtag aaggg 495

<210> 115
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 167409H1

<220>
<221> unsure
<222> 4-5, 33, 66, 74, 118, 124, 142, 151, 153, 175, 199-200, 245, 283, 351
<223> a, t, c, g, or other

<400> 115
gcannagggga aacccacaaa tgaatgaaat cntngaaggc gttcaggaaa gatccaaagg 60
aatatnctaa tcantttatg tgggaatatt ccactaatta cggacaagct cctctttnac 120
tttnagtcag ttacaccaag anttatcttt ntntggtagg gtcctgctgt acctntgcaa 180
gcccactttt atgctttttnn aaagagagac tccagcttaa acatttatca cttctcacca 240
ctctntcaaa tagagtctgc tcacaatatg ctgcttatgg gngaagaaa tcaaggctca 300
gcaatctcat aaagttagcc ccaaaagtgc ctacttctga tctggaggat ntttgccacg 360
ca 362

<210> 116
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1846226H1

<220>
<221> unsure
<222> 87
<223> a, t, c, g, or other

<400> 116
gggacataca gaataggaac aggtgtttgc tctcctaaga gccttcacgc acacccctga 60
accacgagga aacagtacag tcgctantca agtggttttt aaagtaaagt atattcataa 120
ggtaacagtt attctgttgt tataaaacta taccactgc aaaagtagta gtcaagtgtc 180
taggtctttg atattgctct tttggttaac actaagctta agtagactat acagttgtat 240
gaatttgtaa aagtatatga acacctagtg agatttcaaa 280

<210> 117
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2052185H1

<400> 117
gccagaccca gacgtgactg aacgctgctc agatggctgg agctttgatg ctaccaccct 60
ggatgacaat ggaaccatgc tgttttttta aggggagttt gtgtggaaga gtcacaaatg 120
ggaccgggag ttaatctcag agagatggaa gaatttcccc agccctgtgg atgctgcatt 180
ccgtcaaggt cacaacagtg tctttctgat caagggggac aaagtctggg tataccctcc 240
tgaaaagaag gagaaag 257

<210> 118
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2517389H1

<220>
<221> unsure
<222> 45, 51, 156, 159, 281, 313

<223> a, t, c, g, or other

<400> 118

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gcccatggac accacccccca tggacacccat cctcatggac accancccca nggacacccat 60
ccccatggac accatcccca atgccatgat ttccaagact atggaccttg tgacccacca 120
accataaacc aaggtcatgt tgccatggcc acggcncanc acctggggcac ttaagaaggc 180
gaggccccagg taaaggaccc tgtcccttcc attgcagaca aattggatct gtgtaccgac 240
tccctcctct aagaaaagggt gaggtgctgc cacttcctga ngccaatttt cccagtttcc 300
attggcgcaa canaa 315

```

<210> 119

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 911015T6

<220>

<221> unsure

<222> 177

<223> a, t, c, g, or other

<400> 119

```

agccatagaa ctttgcaaat gcgtttccat aaaagttctg agttacttga ctatgaaaag 60
tgaattttca ttttaaccaa cccctcctc caatactacc agaaagcatg agattctgaa 120
gaaatcttca caaatctact cttaattatg gtagcaatgt tccagtctca attaggntct 180
gctgggttcc tggagtggga gtgaagtggc tcttgagtgg ctcccagcac ttgtgggagt 240
tctcatccaa acacctggag gcttgagtcc ccacttgtag ccgccagact taaagatgat 300

```

<210> 120

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 604856H1

<400> 120

```

gcaggagctg gagaagtggc tgaagaaaga gccagaggcc tttgactggg ccccagtggg 60
gacctatgtg tgtgatcttg aagggaacag agtcaagggt ccagagaagg aggagaagtt 120
gagacaggcg gtcaagcagg tgetgaagtg tgatgtgact cagagccagc cactgggggc 180
cgtcccttca cccccggtg actgcgtgct cagcacactg tgtctggatg ccgcctg 237

```

<210> 121

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1448718T6

<220>

<221> unsure

<222> 107, 228, 344, 365, 390, 432, 438, 447, 449, 471, 475, 508

<223> a, t, c, g, or other

<400> 121

```

taacaacata tccagtgtac attttaacag gtggcaacat caccacagggt agctttgatt 60
atgtaatcaa cacttttaac ttccctaca catgtacatc aaatgtnaat ggtggaatat 120
acaagttaac cgctctcctt caaactagct gagaaactac tctctcttat ttcatatttc 180
attttctagg cagtattttt ccatgctctt taaaaacaga cgcagganct ttggaagagc 240
agaaatgcaa ttactttacat acaatatgat gagaagtgtt tcatgatata caaattgaca 300
taggacaagt tattaacata gtacaagttt ttactgtgta gaanaaataa acttacagtg 360

```



```

aatanataaa cagcttttcta tatccaagtn atgtatggag tataaaagag tagttactat 420
atatatatatac cntatgcnta tatatanana tgtgcatggt ctagagtata ntatnctata 480
tacttaaata ttcacgtgac agaacatnat ttcactg 517

```

<210> 122
 <211> 243
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2517268T6

<220>
 <221> unsure
 <222> 53, 86, 89, 95, 98-100, 106, 109, 111-113, 117, 120, 128, 140, 160, 177
 <223> a, t, c, g, or other

```

<400> 122
caaggaacca gcttagtcaa ggaggtacag cctcagcagc aggtcaggat gtngtcctcc 60
tcctctgcct tggccccggg ggaggnacang cgttntgnnn aaatgnctna nnngatnacn 120
gggaccanac aatcagagtn gggaccatcg tgaatccagn cccattgttg tgaatgnacc 180
agcaggacac ctcgggccca tgccacgggt ccttgctgta gtctttttgc aaaccctggg 240
tga 243

```

<210> 123
 <211> 339
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 167134H1

```

<400> 123
gcaaaaagcc aaaagaaaca tttgtttcaa tattgactca gaacctggga aaaatcctca 60
acctgggtttc tgacccagaa tcaggaattg tagtcaacgg tcagcttggt ggtgcccaaga 120
agcccaacaa tggaaaacta agcacctatt ttggaaaact gggattttat ttccaaagtg 180
aagacataaa aatagaaatc agcactgaga ccatcaccct gagccatggg tctagcacat 240
tctccttgtc ctgggtccgac acgggtcaag tcacgaatca gaggggtgcag atctcagtga 300
agaaagaaaa agtggttaact atcaccctgg ataaagaga 339

```

<210> 124
 <211> 244
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2843638H1

<220>
 <221> unsure
 <222> 44, 209
 <223> a, t, c, g, or other

```

<400> 124
gaagaacagc tgggtatacc attattttcaa gtaataaact tgantttctat tagtttataaa 60
attgtaaaaa tcaagttaaa tgacgtgtat gatataataag ctgaacacat tttctatagc 120
ccttaattta gttgtgttaa tttttcaagg tgatgtatca acagcttttt ttatttgcac 180
tgttttttca atgtgtttac atgtatgant tgagcttttt gccacagat tcttgatttg 240
tagt 244

```

<210> 125
 <211> 265
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1813269H1

<220>

<221> unsure

<222> 6

<223> a, t, c, g, or other

<400> 125

```
caagancctc ttccaccggg ccattttctga gagtggcggt gccctcactt ctgttctggt 60
gaagaaaggt gatgtcaagc ccttggtctga gcaaattgct atcactgctg ggtgcaaaac 120
caccacctct gctgtcatgg ttcactgcct gcgacagaag acggaagagg agctcttgga 180
gacgacattg aaaatgaaat tcttatctct ggacttacag ggagacccca gagagagtca 240
acccttctct ggcattgtgat tgatg                                     265
```

<210> 126

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1861971T6

<220>

<221> unsure

<222> 49, 63, 65, 91, 193, 409, 462

<223> a, t, c, g, or other

<400> 126

```
ggaaaaagct gaggtacaca tgtcggtgtg gaggggcagg atggcccena agtctctgtc 60
ccnnccaaag gctgtgtcct gctaggattc nccctcctcc tgtttcctct ccttctcgtg 120
gtgcttctcc agtgggtcac acttatcctt tttccaatcg gtgtacacga catctgactt 180
gggaatgctc aanagtgcag agcttcgtag aactctccca gttgctcctt ggtcgtctct 240
ggcttgtcag catagacaga cagccccagc ttcttctcat cgttcacgtc aaaagcaagc 300
atgtagggtc tgggtgtcct gaggatcagc aagtgcgcga aatgctcttg gcctcccacg 360
tatctggaga tgggtccatt ttcccgtcgg acattcagggt aggtggtgnt atagatgact 420
ggtcctgtcg ggtctgttac tctctgagaa agatcgtgtc cntctgtctt gttgggggtg 480
a                                                                 481
```

<210> 127

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2005973R6

<220>

<221> unsure

<222> 69, 88, 90-91, 265

<223> a, t, c, g, or other

<400> 127

```
ccgaagcgct gcgctgccag gaggagaact acctgccgtc gccctgccag tccggccaga 60
aggcgtgcng gagcgggggc cgctgcgnng ncttgggcct ctgctgcagc ccggacggct 120
gccacgccga ccttgcctgc gacgcggaag ccaccttctc ccagcgtga aacttgatgg 180
ctccgaacac cctcgaagcg cgccactcgc tcccccata gccacccagc aaatggtgaa 240
aataaaataa agcagggttt tctctctt                                     268
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<210> 128

<211> 327

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2515729H1

<400> 128
 ccaagggcgc agtccgtctt ttgaataact gggacgtgtg cgcagacatg gtgggcacct 60
 tcacagacac cgaggaccct gccaaagtta agatgaagta ctggggcgta ctctttctc 120
 cagaaaggaa atgatgacca ctggatcgtc gacacagact acgacacgta tgccgtgcag 180
 tactctgtcc gcctctgaa cctcgatggc acctgtgtcg acagtactcc ttctgtgttt 240
 cccgggaccc caacggcctg cccccagaag cgcagaagat tgtaaggcag cggcaggagg 300
 agtgtgcctg gccaggcagt acaggat 327

<210> 129
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2132356T7

<400> 129
 aagcccagcc ctgcagggag ggctcgctaag gtgccagct cttctggggg gcttccttgt 60
 ctctgatgtg cccatggatc cagtcgaggt agcggctgac tttggtgtaa acgccgtagt 120
 tgtgaaggag cccacagccc tcaccccagc tcaccaggcc caccaggaac caggtgccgt 180
 ggaaggaggc gaccatgggc cccccactgt cgcctcgca ggcacctgc cgggtcccga 240
 ggatgcccg acacagcatg ttctcagaca ccatgttgct catgacctcg ctgcactcat 300
 tgtgctgggac caccgga 317

<210> 130
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1001726H1

<400> 130
 cgtggatgcc tttgactatg acctgcagac aggacagatc tccaaccgca gaagtgttta 60
 caagctagaa aaggaagaac aaatcccaga tggaatgtgt attgatgctg aggggaagct 120
 ctgggtggcc tggtacaatg gaggaagagt gattcggtta gatcctgtga cagggaaaag 180
 acttcaaact gtgaagttgc ctgttgataa aacaacttca tgctgctttg gaggggaagaa 240
 ttactctgaa atgtatgtga cc 262

<210> 131
 <211> 248
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2631845H1

<220>
 <221> unsure
 <222> 137, 246
 <223> a, t, c, g, or other

<400> 131
 gcaccatgaa gcttctcacg ggcctgggtt tctgtcctt ggtcctgggt gtcagcagcc 60
 gaagcttctt ttctgttctt ggcgaggctt ttgatggggc tcgggacatg tggagagcct 120
 actctgacat gagagangcc aattacatcg gctcagacaa atacttccat gctcggggga 180
 actatgatgc tgccaaaagg ggacctgggg gtgtctgggc tgcagaagcg atcagcgatg 240

ccaganag

248

<210> 132

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 086390H1

<220>

<221> unsure

<222> 109

<223> a, t, c, g, or other

<400> 132

tatagctcca	cggccagaag	ataccagcag	ctctgcttta	ctgaaatttc	agctggagaa	60
aggtccacag	cacaatgagg	cttttcacag	gcattgtttt	ctgctcctng	gtcatgggag	120
tcaccagtga	aagctggcgt	tcgtttttca	aggaggctct	ccaaggggtt	ggggacatgg	180
gcagagccta	ttgggacata	atgatatcca	atcaccaaaa	ttcaaacaga	tatctctatg	240
ctcggggaaa	ctatgatgct	gcccaaagag	g			271

<210> 133

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1287840H1

<400> 133

ctaagtaaga	aacacaatgc	caacagctgg	ccagtaatta	gtgttgtgca	cttcatgtca	60
ttaatcaatt	tctcaatagt	tcttaaaatt	agtgagatta	aaaatctaaa	aattttgcat	120
ttcatgctat	cagaaacagt	attttcttcc	caaatacaaaa	taaaagaaat	atgatcagag	180
cttgaacaca	ggcttatatt	taaaataaaa	atatttttaa	catgggtttc	cttattgaaa	240
aatcagtgtg	ttagtcataa	aa				262

<210> 134

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2516905H1

<220>

<221> unsure

<222> 338

<223> a, t, c, g, or other

<400> 134

ctcagcgtgc	tgcacctcaa	agccgtagtg	tacgtgagcc	tggacaacgc	agtgtgtggg	60
gatgacaagt	ttcatgccaa	gaccagcccc	cttctgacaa	gtctcattga	gagtgtcctg	120
aagcaggtgg	attctcccaa	ccacagtggg	cagactctct	atgaacaggt	gggtgtccac	180
aatcccagct	gggatgctga	ggtgatccgg	ccctaccca	tggacagcag	tgcctattcc	240
ttcacggcct	ttgtgggagt	ccctgccgtc	gagttctcct	ttatggagga	cgaccaggcc	300
taccatttcc	tgcacacaaa	ggaggacact	tatgagancc	tg		342

<210> 135

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <223> Incyte ID No: 606122T6

<220>
 <221> unsure
 <222> 393
 <223> a, t, c, g, or other

<400> 135
 ccccaaaaa tcaataaaaa gttcaaatag caacttttcc taatgtgttt aaaatgtaat 60
 caccaaatac atgtgtcccc aacttctttc cagttataat tctatttgtt aaagtggagg 120
 atacctgaag tgaggcaata agagagttga gcttcagacc tgcctggaga gagcgtgttc 180
 tttcttagag tctgaggaaa tggttggggg cacaaattct ctcaatcttt ttcttttccc 240
 tcacctgag ctcttatttt cttgtctcaa ctgctttctg gtaaaactttg ttcacctggt 300
 actttcaaga aaaaaagaag gaaatcttac gagagggagg cagattaatg aattagttag 360
 tcactctagc agcgcagagc aagggagaat ctncgatgtg aatgaggagg atctgagtgt 420
 ggggtgtggt gtacttgagg aaaagcagga acaatcttga acccttgaca tgggtgcattt 480
 gagggccctc tcccagtagg gccacctgag tccctgagga gccgcaagcc tagtccagc 539

<210> 136
 <211> 304
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3553733H1

<220>
 <221> unsure
 <222> 96, 234, 251, 266, 272-273, 281, 290, 298, 303
 <223> a, t, c, g, or other

<400> 136
 ctttcatgtc agtgtcaagg gcatcagcat ttcgggtcaac ctctgttgg gcagcgagtc 60
 ctccgggagg cccacagtta ctgcctccag ctgcancagt gacatcgctg acgtggagg 120
 ggacatgtcg ggagacttgg ggtggctgtt gaacctcttc cacaaccaga ttgagtccaa 180
 gttccagaaa gtactggaga gcaggatttg cgaaatgatc cagaaatcgg gatnctccga 240
 tctacagcct natcgccaga gtcggncatt annacagaga nttgcagtn ctccgacntt 300
 gtnt 304

<210> 137
 <211> 173
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1813381H1

<400> 137
 cgagggcccc atcgatgccg ccttcacccg catcaactgt caggggaaga cctacctctt 60
 caagggtagt cagtactggc gctttgagga tgggtgtcctg gaccctgatt acccccgaaa 120
 tatctctgac ggcttcgatg gcatcccga caacgtggat gcagccttgg ccc 173

<210> 138
 <211> 213
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1634342H1

<400> 138
 ggcagattga tgacatactc agtgtggcct ccgtgcgtcc agctgtcttg ccacccatac 60
 ttgggtcaaa atgagctaata tgcacctgc caagcacgtg gcctggagg aactgcttat 120

agccctttgg gctcctctga tctgtcatgg cgtgatcctg atgagcctgt cctgctggag 180
gaaccagtag tcctggcatt ggctgaaaag tat 213

<210> 139
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1418871H1

<220>
<221> unsure
<222> 29, 225
<223> a, t, c, g, or other

<400> 139
gtcgtgcaa cgtggagggg cagtgcattc gcaagggtgg ccgcatgaag ggcattgccc 60
cgaagctgtc ggcagtgggc atcctttagt gcaccctggt agcaatagga atcttctca 120
tcctcatttt caccacttgg accatgtcaa ggaagaagga cccggatcaa ccagcagaca 180
gcgtgccccct gaaggcgact gtctgaatgg cccaggcagc tctanctggg agcttgccct 240
ctggctcca 249

<210> 140
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3766382T6

<220>
<221> unsure
<222> 448, 454, 460, 479
<223> a, t, c, g, or other

<400> 140
cagaagagag aattcttaga gtcagaggga ggagtagaag gaaaaagata tttaaaaagc 60
tatgcttcaa gaggacattt catgctgtca aaatgagact gtgaatcaga aagttctcgg 120
ggaactgcaa ggtgctctca actaggggtc gggttccttct cagtcattggc actgactcat 180
ctccacaggg ttctcacctg cgggaggaaa atggaggagt tgcgcctgtc agaaactgtc 240
tgtgtgattc ggggaagaat atggagtatc ttagtagcat tccattatta cttgccccta 300
aatacatgat gccagcccc tgcacagata acctcctgct tttatagctt gaaatatatt 360
tgatctaaac cagcatttga catcttcaga gagagagaag tagataaaaag tctccattcc 420
aggttggcag tacggatccc tgcagaantg gctncaaant aaatttggcc tacagagant 480
aagttctaca gt 492

<210> 141
<211> 574
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 943181T6

<220>
<221> unsure
<222> 521, 531
<223> a, t, c, g, or other

<400> 141
tggaaccag acaacccag aagccatctg tgccctgccct tgggtgacagt gtactccaat 60
ctcatcattc attaatgtga tggccagtca ctgagcacct ggcagatact ggttttccat 120
cttctcacac tcagctctgc ccaagggtgg atttttgtct ctcaaggcag gagccatcgt 180

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cccaaccagg atgagccatc ctcttctggg ctagggttaa gttgcctgtt atgccaaaga 240
atgggagctgg actggaggga ggggcagggtg gtgatggggg aagagaagca ggggtctcagc 300
ccaacctcag taccagggca gctgggggtgc cctgtttcat cttgctgggc cggtcactt 360
tggggctggc ggatttgtca ggttggaat tgctttcttc atctccaccc aggacacgca 420
gcccacagct ctgcccgcg acgtcacaaa gagggaatga aggttcaaca gctcaaagag 480
gttgtgtgct catgcaggga agtctctggg gacaacttca nggtcactgg ntctgtgggg 540
cagcttcagc caaagatgtc ctggagacac tgtg 574

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<210> 142
 <211> 531
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 603761R6

<220>
 <221> unsure
 <222> 211, 511
 <223> a, t, c, g, or other

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<400> 142
cgctggtagt gaacccttgg ctactcaag ttogaatctt tcatcaactc agatacaata 60
agtcagtgcc caacctttgc aaacagatct gcagccacct ctgccttctg agacctggag 120
gatacagctg tgctgtccc caaggctcca gctttataga ggggagcacc actgagtgtg 180
atgcagccat cgaactgcct atcaacctgc ncccccatg caggtgcatg cacggaggaa 240
attgctattt tgatgagact gacctcccc aatgcaagtg tcctagcggc tacaccggaa 300
aatattgtga aatggcggtt tcaaaaggca tctctccagg aacaaccgca gtagctgtgc 360
tgttgacaat cctcttgatc gtgtaattg gagctctggc aattgcagga ttcttccact 420
atagaaggac cggctccctt ttgcctgtc tgcccaagct gccaaagctta agcagtctcg 480
tcaagccctc tgaaaatggg aatgggggtga ncttcagatc aggggcagat c 531

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<210> 143
 <211> 220
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1297562H1

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<400> 143
aaagacagtt tatcatcaac tctttcagtg gtaaaactgt gtttcccaa gctgcacag 60
aggccagaaa ccacaagtat gatgactagg aagcctactg tcatgacagt ggggagacag 120
gcagcaaagc ttatgaagga ggtacagaat attctttgcg ttgtaagaca gaatacgggt 180
ttaatctagt ctaggcacca gatttttttc ccgcttgata 220

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<210> 144
 <211> 282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2910715H1

<220>
 <221> unsure
 <222> 24
 <223> a, t, c, g, or other

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<400> 144
ctcctgcaga cccacgtcac caangagggg gagcggatcc tectcaacca agccactgtc 60
aaattccacg tggactcctc ctctgagagc cccttctca ttctgcccac gacattctac 120
catgtgctgg atgagacgag cccctgaga gacctcacac cccaaaacct aaaggagaag 180
gagtttgagc ttgtggctct cctcaatgcc actgtggaat ccaccagcgc tgtctgccag 240

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agccgaacat cttatatccc agaggaaatc tactgggggtt tt

282

<210> 145

<211> 550

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 196975T6

<220>

<221> unsure

<222> 519, 531

<223> a, t, c, g, or other

<400> 145

tctcacagca	gaagtacaaa	tcatatgtac	aagtatttat	atcaatgaaa	atttccattg	60
gtgatttttt	ggcagaatat	tggtcttgac	tctgtggaat	aaatgacgac	gtaaacgtag	120
ctgcacaggg	gtgttcctgt	ataatgcttg	aatcaattgt	gtgtgaaagc	atcatgcaaa	180
tggctaatta	aattgggtga	tgactgaaag	gttataaatc	cttcattcca	gctccacgag	240
cagatccccct	tctccaaactg	tgtctccagc	ttgacagtgc	acagatttca	ccgtgccagt	300
tttcccagct	gtcatactat	tctgcatttt	catggcttca	atcacacaaa	tttcttgacc	360
ttctgctacc	gcgtctccag	gcttgacaga	gacggccacc	accactccgg	gcctcgggga	420
acgcagaaca	ctgcttgtgt	cctcagtcac	tttttccagc	ataaatttgt	tcaattctgc	480
ggcaagtctg	ggttaagata	ttcaccttgt	acactgtanc	caagaaaactg	natgcccattg	540
tttccacctg						550

<210> 146

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1453049H1

<400> 146

tgcccagcga	cggetttaagc	cagcccccca	ctggccctggc	cacactgctc	tccagtagca	60
cagatgtctg	ctctctctct	tgaacttggg	tgaggaaaccc	cacccaaaag	ccccctttgt	120
tacttaggca	attccccttc	cctgactccc	gagggctagg	gctagagcag	acccgggtaa	180
gtaaaggcag	accaggggct	cctctagcct	catacccgtg	ccctcacaga	gccatgcccc	240
ggcacctctg	ccctgtgtct	ttcat				265

<210> 147

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1968695H1

<220>

<221> unsure

<222> 132

<223> a, t, c, g, or other

<400> 147

ctacttaacc	tccgtgatgg	ggaaagcggc	cggagaaagg	gagttctggc	agcttctccg	60
agaccccaac	acccactgt	tgcaaggat	tgctgactac	agacccaagg	atggagaaac	120
cattgagctg	angctggtta	gctggtagcc	cctgagctcc	ctcatcccag	cagcctcgca	180
cactccctag	gcttctaccc	tccctcctga	tgtccctgga	acaggaaactc	gcctgacct	240
gctgcaactc	ctgtgc					256

<210> 148

<211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 958344H1

<400> 148
 ggcgacctgt cccgatttgc actgctcatg accaactgct atgccacacc cagtagcaat 60
 gccacggacc ccctgaagta cttcatcatc caggacagat gcccacacac tagagactca 120
 actatccaag tgggtggagaa tggggagtc tcccagggcc gattttccgt ccagatgttc 180
 cggtttgctg gaaactatga cctagctctac ctgcaactgt aagtcctatct ctgtgacacc 240
 atgaatgaaa agtgcaagcc tacctgctct gggaccagat t 281

<210> 149
 <211> 218
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 254081H1

<220>
 <221> unsure
 <222> 3, 8, 11, 47, 58
 <223> a, t, c, g, or other

<400> 149
 cgnetggngg nagectctat tcttaccttc tgggaatgct aggetgntat aaaatggnc 60
 gttggattta tgcttgctca tccttatggt ttacacagag taatgtcaag ctaccgttgg 120
 ccaagaacag tttcaaaatg ggaaacgaat gttaataatt ggggtggggc caccaaataa 180
 taatggggta attaaaggaa gttactatta atccagac 218

<210> 150
 <211> 240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1330674H1

<400> 150
 gtggacatct tcaagggcat ccccttcgca gctcccacca aggccttga aaatcctcag 60
 ccacatcctg gctggcaagg gaccctgaag gccagaact tcaagaagag atgcctgcag 120
 gccaccatca cccaggacag cacctacggg gatgaagact gcctgtacct caacatttgg 180
 gtgccccagg gcaggaagca agtctcccg gacctgcccc ttatgatctg gatctatgga 240

<210> 151
 <211> 102
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2377834H1

<220>
 <221> unsure
 <222> 54, 73, 88, 97, 101
 <223> a, t, c, g, or other

<400> 151
 tgggtggcga gaaccgcac cttgtcagca agatccagat tggcaacacc tatnaagggc 60
 gtcccattta tgngetgaag ttcagcangg ggggcantaa nc 102

<210> 152
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2075464T6

<400> 152
 ccccagggcc ctaatagggg tgggtctcgca catgtcccat gattgccttc aagccaagcc 60
 aggtctctctc ggctgtgggc aggatctgac gggctggcaa gaggaagccg tagcgccctg 120
 tgtctctcag ttcaaaggca aatgagtact tgatgccata atcataggac cagtcaatgc 180
 ttctccact ggcttggtag atgacagagc agattgggtcc cactttgtac ttggtgccat 240
 gcaggcttct cagagattgg gcagcctttt gggccacttc actcagctca tcaaagtcac 300
 ctaacttggc acatttgtag ccatagggga acatcagcag ctgggaatag ctgtggaggg 360
 taatgaaggc cttgactttt ccatgactct tgatgaagtc cactatggat ttcacttcaa 420
 cttcagagtt ggcactgggt ccgtgggtatg aatcagagca agggttgctg ctggctccag 480
 gtctctcaaa acctgcatcc cagttccggt taggattccac accaaca 527

<210> 153
 <211> 232
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2383235H1

<400> 153
 cactcaccat ggagaagatc ctgatactcc tgcttgctgc cctctctgtg gcctatgcag 60
 ctctctggccc ccgggggagc attatcaacc tggagaacgg tgagctctgc atgaatagtg 120
 ccagtgtaa gagcaattgc tgccagcatt caagtgcgct gggcctggcc cgctgcacat 180
 ccatggccag cgagaacagc gagggtctctg tcaagacgct ctatgggatt ta 232

<210> 154
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1285503H1

<220>
 <221> unsure
 <222> 155-174
 <223> a, t, c, g, or other

<400> 154
 gaagaagagg tgcaagatac aaggcttttag agagcagcat aaatgttgac atgggacatt 60
 tgctcatgga attggagctc gtgggacagt cacctcatgg aattggagct cgtggaacag 120
 ttacctctgc ctcaaaaac aaggatgaat taagnnnnnn nnnnnnnnnn nnnntttggt 180
 aagggaatt gaggacactg atatgggtct tgataaatgg cttcctggca atag 234

<210> 155
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2383205T6

<220>
 <221> unsure
 <222> 156, 276, 323, 402, 412, 420

<223> a, t, c, g, or other

<400> 155

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caagtctgaa acagtcccag ggacttcttt tggttagtta tttgcaatca ccgaattgat 60
ccagtcgatg taattggaga cccgcgtgaa gacggagggc ttgtggtagt agttgcagcc 120
gaggcgagac ccgaagctga cgaatgccgtg cacctnccac cggccgctcag acgctgacag 180
ttcatggggc cgccagatct ccgttgacgc tggagatcac gccatcacc ccagcacaga 240
tcatactggg tttcacgctg ctgccccacc aggcanaagct ggagcagggt gatattccca 300
aacagcaacc ggccctgctg cangacatca ggaacagccc cgttggtctg cagccttccc 360
cagcccgtga cgtagcagg gtagttgttg ggtagaatgg tnccggcaag anggaggcan 420
gcagctgga tctgtcggg gagggg 446

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<210> 156

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2015871H1

<400> 156

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tgttgggtga gtacaacctt gctgtgaagg agggccccga gcagggtgat cccatcaact 60
ctgaggagct gtttgtgcat ccaactctgga accgctcgtg tgtggcctgt ggcaatgaca 120
tcgccctcat caagctctca cgcagcgccc agctgggaga tgccgtccag ctgcctcac 180
tcctccccgc tggtgacatc ctcccaaca agacaccctg ctacatcacc ggctggggcc 240
gtctctatac caatgggcca ctcccagaca agctgcagca ggccgggctg cccg 294

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<210> 157

<211> 195

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2374046T6

<400> 157

```

gatttacata ggggagttgg agatgctaac caagcatgga gttttcacat ggtctatttc 60
tgctgagttc agggacttgg agacagcctt taacttctgg caaaaagaca atttcacaaa 120
ggtgttttaa accatccttt ggtttttgat cctgagtcag agacggacat gtgcttatga 180
aagaaggtag agttt 195

```

<210> 158

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1709828T6

<220>

<221> unsure

<222> 150-181

<223> a, t, c, g, or other

<400> 158

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ctaacagaac aaaaagtttt tacagtgcct tctcatcac tgtctgggat ttacagataa 60
cacaggtagt tttggtcagg ggttaatat attgttgttt taaccaccgg ggccagggtg 120
tgcgccaag gtcgtctagc tatttattn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nccttttttg ctgtcttaca aactagggaa aaggggaggt tggggagaaa ctgggaagga 240
caacaggaga agtggtggtc tcatacctta ttccccctt ttgagcattt tcaactttta 300
gtgggagttc tcaactctcat ctttactttt tgagtctatt tgtgagatag agcgatagtg 360
atttatataa cacacgtgtg ctgaaagttt ctgatgaacc aaagtagcta caaaccttt 420
gatcatttga aaaagca 437

```

<210> 159
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2061119T6

<220>
 <221> unsure
 <222> 143, 145, 148, 151, 194, 218, 233, 250, 257
 <223> a, t, c, g, or other

<400> 159
 gctggagggtg ctcatgggtga caccgcacag gacttctctgc ctgctagaaa tcatctaccc 60
 gcgtgttctt tttccctttc tggggcaaaa gccactgcgg gccatgtacc caaataaacc 120
 tcttaatgcg tttgttaaaa ttngnttnga natctgagtt tccctctgaa gaaatggaaa 180
 aagtgttggg tgnccatcc cgcctcccc tcccagantg gccattaag tcnctactaa 240
 gagggcgtn ctgctgnctc cggac 265

<210> 160
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3665105H1

<220>
 <221> unsure
 <222> 26, 45, 50, 117, 131, 137, 148, 154, 169, 205
 <223> a, t, c, g, or other

<400> 160
 ggcataccca accacactgc cctgtnccca ttggagtggc aactnctgtn tctggaaaac 60
 agagggtgctg gtgaaggcct gccagggcgg gtaccatgtg taccggtttg gaaggcnctc 120
 cctgggtgtaa nctgatntac tgcacagncc catncacctg tggaggacna gtgtgagaag 180
 gcctgccgcc ccgaggagga gtgcntgccc tcaacagcac ctggggctgt ttctgcagac 240
 aggacctcaa tagttctgat gtccacagtt tgcagctcag ctagactgtg ggccc 295

<210> 161
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2068983F6

<220>
 <221> unsure
 <222> 241, 246, 249, 252, 285, 347, 358, 407
 <223> a, t, c, g, or other

<400> 161
 ggatatcaag gttctccata ggttcttcga gataagctta aagctgaatt tctgtgtgtg 60
 ttcaggcatt cacagataaa ctcatctctt gtacttctag ggtagcatct ttatgtatct 120
 attatgtacc tcttatctat tgtgttatca tctctgttat agaagagcct tctgtagacc 180
 atatagaaaa agattataga ggaggagaat ctactgctgg caattgggaa ccgcaaggta 240
 nactanatna tntatcaaca actaatggcc atctaagtct atgcnnggata tgaacttttg 300
 gggcctcagg aaagaaaaac caggaactag tttcaataat gaggtgnat ggttcccnct 360
 ggcagattta gagcgcttat cgtttggcag gacacagaga ggtaggngaa caattccagg 420
 aaagaagcag cttagaga 438

<210> 162

<211> 248
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2242648H1

<400> 162
 cattggaagg agggcagaaa tgaatgaact tatggagcag acctcggaga tcatcacgtt 60
 tgccgagtca ggaacagcca ggaagacgct gcacttcgag atttccaagg aaggcagtga 120
 cctgtcagtg gtggagcgtg cagaagtctg gctcttccta aaagtcccca aggccaacag 180
 gaccaggacc aaagtcacca tccgcctctt ccagcagcag aagcaccgcg aggccagctt 240
 ggacacag 248

<210> 163
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 885032T6

<220>
 <221> unsure
 <222> 360, 364
 <223> a, t, c, g, or other

<400> 163
 accacgtttt taacaagggt aaagagattg caagacgttt tcttcacag tgcgctgct 60
 acaaaaatta tactcagtc cactcttcacc actttgcact gtgatttggg aagccccag 120
 tttgggctca gatagattta tcccacgttt gttccagagg aatttaactt tctgtatttt 180
 tccaacatta aaatccacat caatagcaca cgtgtgactt gcatctggtt tgagggatcc 240
 tttgaaaatc tcatattggt ttgagttttt attacttcca tacaagcaa tcttgatgta 300
 cccattcact ttctcttttc cagaaagtgt gactgatata ttatatcttc aactagtaan 360
 gttncactc cctcctgtg 379

<210> 164
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2383830T6

<220>
 <221> unsure
 <222> 211, 218, 220, 241, 277
 <223> a, t, c, g, or other

<400> 164
 tgaggcagat agaggtgatg cttttgagag gtgatattca actctgacaa tacttcttgg 60
 tgtccaggtt cttgtgtgcc ttgttatatg gagcttttga aaagcagatg gcagcgttgc 120
 ggtcgcagtt gcaaatgaag gcctcacact ctttgttttt gctgctacag gtgattgccg 180
 agccagagca cgagtatgaa taggtgtggg ngtacgntn gtccagcaga aatttacagc 240
 ngtccagctt cttggcctgg tcatagcagt tgtcatntgt ctggcagcac ttgtccagtt 300
 catccacggg ggtgcctgag ccccccaagc cacagtagca gccgtagtgt ttgtattcca 360
 agaaggggtc actccccggg atcacgcact tgatcatttt gcggaactgc cacacggccc 420
 gagggtgat gccgtgtcg gcggcgccca ctgtgaccag cacagctagc acaaggagt 480
 tcatcttgcc tcgagc 496

<210> 165
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2085191H1

<400> 165

```

accatgaatc cactcctgat ccttaccttt gtggcagctg ctcttgctgc cccctttgat 60
gatgatgaca agatcggttg gggctacaac tgtgaggaga attctgtccc ctaccagggtg 120
tccctgaatt ctggctacca cttctgtggt ggctccctca tcaacgaaca gtgggtggta 180
tcagcaggcc actgctacaa gtcccgcatac caggtgagac tgggagagca caacatcgaa 240
gtcctggagg ggaatgagca gttcatcaat gcagccaaga tcatac 285

```

<210> 166

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2792982H1

<220>

<221> unsure

<222> 15, 100-101, 110, 159, 167, 198, 212, 218, 222, 229, 258, 269, 271-272, 274, 288

<223> a, t, c, g, or other

<400> 166

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gcagacggct ggcangcgtt gggcacagtt gctgtccctt ttgacgatga tgacaagatt 60
gttgggggct acacctgtga gaattcttct cccctaccan ntgtccctgn attctggctc 120
ccacttctgc ggtggctccc tcatcagcga acagtggng gtatcancag ctactgcta 180
caagaccgc atccaggnga gactgggaga gnacaacntc anagtcctng aggggaatga 240
gcagttcatac aatgcggnca agatcatcng nnancctaaa tacaacangg ag 292

```

<210> 167

<211> 103

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 243123H1

<220>

<221> unsure

<222> 57, 62, 67, 71, 89, 91

<223> a, t, c, g, or other

<400> 167

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gtctgttcca aggggtttcc ctttccactc atcggagatt cagaggggatg agctgggnacc 60
anctgggnaca ngggtgtccc gtgaggctnt ntcgggtctg ctg 103

```

<210> 168

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 382416R6

<400> 168

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gaaaatccac atcttccaga caatccatgt cttccggaca atccatgtct tccaagaagc 60
tccaagtctt ccagtaaatac aagtcttcca gcaaatccag tcttccagca attactgggtc 120
ttccacaaaa tccagatctt ccaggaaaaat ccagctcttc caggaaatcc atgtcttcca 180
ataatttcaa ggtcttccat caaatacaga tcttccagct aatccatgtc ttccagaaaa 240
atctgtgtct tccacaaat ccaagtcttc cagtaaatct agttcttcca gaaaaatcta 300
gatcttccag tcaatcagtg tcttccagaa agaaatccag gtcttccagt caatcagtg 360

```

```

cttcagaaaa gaaatccagg tcttccagtc agtcagtgtc ttccagaaaa atctacgtct 420
tccacccaaat ccaggctcttc cagtcfaatcc acatcttccg ggaaaaaatcc aggtcttcca 480
gccaatatat g                                     491

```

```

<210> 169
<211> 275
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1852659H1

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```

<400> 169
gttttacaga tgaaggaatg ttttatagta atttaatttg ctctgtagc tgcattatct 60
cttgattaga ggtttgggca tataaccaga ttaaagtga ggaactttct gttgtttttg 120
tagcaccgct cagctgtctt gtaaaacagt gaacacacgc tttctggttc tagtaatcct 180
gggtgtttat caggttcaga gaaactcaag ctattgcatg attagcccc tatctggcaa 240
ggaaacccca tacagaagaa acaacaaacc tgcgc                                     275

```

```

<210> 170
<211> 322
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 3220181H1

```

```

<220>
<221> unsure
<222> 208
<223> a, t, c, g, or other

```

```

<400> 170
ctgaacacat tgaagatgtc aaaatggcat ttgacagaga tggtgaaaag gccgatatat 60
ctgccaatgt ctatccagac ataaacatca tcaactggagc ccttaaactg tatttcagag 120
acttaccat cctgtcatc acatatgata cctattccaa atttatagat gcagcaaaaa 180
tctccaatgc agatgagagg ctggaagngt ccatgaagtgc ctgatgctgc tgcctcctgc 240
ccactatgaa accctccggt acctaatgat ccacctcaaa aaggttacta tgaatgaaaa 300
agacaatttc atgaatgcag aa                                     322

```

```

<210> 171
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1726307H1

```

```

<400> 171
atTTTTtaac aattgtataa gtgccaagt aattcactac agcctaaagc cttgcctttg 60
taatttgact tctgacatgt tggcaatcaa agcatgcact tgtaacaatg aaaaagaaaa 120
agcattttat attactactc aataaaatgt gcatgaactt acagaattct catccttcca 180
ctgagtcgag tgaagggatt tatgtgcaca a                                     211

```

```

<210> 172
<211> 324
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1904244T6

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```

<220>

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<221> unsure
 <222> 3-4, 33, 39, 47, 51, 56, 131, 161, 274, 298
 <223> a, t, c, g, or other

<400> 172
 ttnttgcttc tcacctgaaa cacgtaacag gangccatnc tcttcancgg ncgggnaatc 60
 ttctttgaca caaaactcaa accgagtcaa cccaaagtcc caagttcttt gctttctctt 120
 ctgtgtgtag ngttgggttg tcccaaaagt cagtttgcaa nttgaaactt catgaaatta 180
 ctgtagcag aaataaagta cattgtacaa atcacgcagg tctgcgatgt ggagtataaa 240
 aatggtattt acagccagta aacatggacc aganagacac gtacaactgc acaccgnac 300
 acactcccaa gcaggccctc gggg 324

<210> 173
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2039955H1

<220>
 <221> unsure
 <222> 2, 58, 62, 224, 247, 259
 <223> a, t, c, g, or other

<400> 173
 angctgttga atcagaaaca gatcaacagc ccaaagattt tctgttcctt gggggaangg 60
 gnttgccagc cccaggaagc tccagggctg agtggtcagg agccagtttc tccagcccct 120
 cctcccaca acccctagt gggaggggca gctgtccatt tgcccaaagt attaatgcaa 180
 ctgaagctgt gatatttcca acgactgtag gaggaaaaat taangggaga gaggaaaaca 240
 aaaccancca acccctaana tcattttctt attgtacata acgacctcat tctcct 296

<210> 174
 <211> 97
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2675641H1

<220>
 <221> unsure
 <222> 95
 <223> a, t, c, g, or other

<400> 174
 gaattctaaa aaatatTTTT ttctatgaaa ttactagtgc ccagctgtag aatctacctt 60
 aggtagatga tccctagaca tacgttggtt ttgangg 97

<210> 175
 <211> 134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1412749H1

<400> 175
 accgagttct agaagctcct gacaaggagg cagcatccag ccttgaccag gcctcccagt 60
 tccctggaac cgtatcaggc attcccctgc ctctcacaaa tgtttcaggg aggccagttc 120
 tgcagggtgt cagc 134

<210> 176
 <211> 255

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1963854H1

<220>
<221> unsure
<222> 6
<223> a, t, c, g, or other

<400> 176
cttgnaact gttttgaaag ataacacaga gggaaaggga gagccacctg gtacttgctc 60
accctgcctc ctctgttctg aaattccatc cccctcagct taggggaatg cacctttttc 120
cctttccttc tcacttttgc atgtttttac tgatcattcg atatgctaac cgttctcagc 180
cctgagcctt ggagaggagg gctgtaacgc cttcagtcag tctctgggga tgaaactctt 240
aatgctttg tatat 255

<210> 177
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2949085H1

<220>
<221> unsure
<222> 60-75
<223> a, t, c, g, or other

<400> 177
gagcattgca gctccaggaa gatgaatata tggcttggca ttttctatgg ttacaagggn 60
nnnnnnnnnn nnnnnngaatt ctctcttgc tctgagacca agagtgtgtc cactgagaag 120
atcaatgac accgggctgt gggcatggct atctacaatg tggcagtcct gtgcctcacc 180
actgtcctg tcaccatgat tctgtccagc cagcaggatg cagcctttgc ctttgccctc 240
cttgccatag ttttctct 259

<210> 178
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2963196H1

<220>
<221> unsure
<222> 162
<223> a, t, c, g, or other

<400> 178
ggagacgcat cacctccgct gctcgccgct cctacgtctc ctcaggggag atgatggtg 60
ggggcctggc tcttgccgc cgtctgggtc ctggcaccgc cctctccctg gctcgaatgc 120
ccctccact cccgaccggg tggatttctc cctggctggg gnetcaatgc tggcttcaag 180
gagaccggg ccatgagcgg gcagagatga tggagctcaa tgaccgtttg caagctacat 240
cgagaagttc gttctgggaa cacaaaacaa ggcgtggctg ctga 284

<210> 179
<211> 279
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1505977H1

<400> 179

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gggttcaagt acaagttgac aattgttggt gatggcaagt atggggccag ggatgcagac 60
acgaaaattt ggaatgggat ggttgagaaa ctgttatatg ggaaagctga tattgcaatt 120
gctccattaa ctattaccct tgtgagagaa gaggtgattg acttctcaaa gcccttcatg 180
agcctcgga tatctatcat gatcaagaag cctcagaagt ccaaaccagg agtgttttcc 240
tttcttgatc ctttagccta tgagatctgg atgtgcatt 279

```

<210> 180

<211> 205

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1674985H1

<220>

<221> unsure

<222> 76

<223> a, t, c, g, or other

<400> 180

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gtcaaaagtc atcaagcagt gttcatttat cctgtcacat gtttctgttt ctatagtaat 60
ttagaaattg caaatngtta acttttcacat atgtaaaaag ttaacattat cctatttcca 120
tagataccat ggaaggcggg gtggcctgag ttgtcagctt ttaatcctga gtcattgtggc 180
tctcttttca tctttgatgt cagtt 205

```

<210> 181

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2109054R6

<220>

<221> unsure

<222> 439

<223> a, t, c, g, or other

<400> 181

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ctagagcatg aatacatcca caacttcaag gtgctgcaac agctttcaag aagatgggtg 60
ttgacaaaat catttctgta gagaaattag tgaaaggaaa attccaagat aattttgagt 120
ttattcagtg gtttaagaaa ttctttgacg caaactatga tggaaaggat tacaaccctc 180
tgctggcgcg gcagggccag gacgtagcgc cacctcctaa cccagttcca cagaggacgt 240
ccccacagg cccaaaaaac atgcagacct ctggccggct gagcaatgtg gccccccct 300
gcatttccg gaagaatcct ccatcagccc gaaatggcgg ccatgagact gatgccc aaa 360
ttcttgaact caaccaacag tgggtggactt gaagctgaca gtggatgggc tggagaagga 420
cgtgacttct acttcagcna acttcgtgac atcgagctca tctg 464

```

<210> 182

<211> 238

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3317039H1

<400> 182

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tgccgtctgc accagtatga tgggtccata gttgtcatcc agaaccacgc ccggcagacc 60
ctcttcttca atggcaccgc tgccttgaag gatgagcggt tccagcttga ggagttctcc 120
ccacgccggg tgcggatccg gctctcagat gcccgctgg aggacgaggg gggctatttc 180

```

tgccagctct acacagaaga caccaccac cagattgccg cgctcacggg actagtgg 238

<210> 183
 <211> 598
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2838551T6

<400> 183
 aggaccaaga tggggctggc ctgtgtcagt caggaagcct ccctcttctg ctgggacagg 60
 gccttgccgc agctcctcct ccccgctga ggtcctaggc ctgccacagg ccagcatgcc 120
 ggtgaggtca gtggcaggag ccaccagaa gcccgcaga tgacggagct gagaacaggg 180
 acttcacctc cactgtgtgc catttctca ctggaaagtc cttgggaggt ggctgggctc 240
 agcctgagct cagggctctt cgggtgggggt tggggcaggg gcagggcggg cacttgccagg 300
 tggcacaggc ttcacaaagg caggacacgg gcttcatcaa ggcaggagcc acagcgcccg 360
 agccctggca ggggaggtaa ggcccaggat ggggcagggc cgtgtgctcc tggaacggac 420
 atccttctct gccagagacc tgctcccaa gccctgtccc tcccaatccc caggcagccc 480
 actctgccct ccatagatga atctaattcc atatattaca ataaactgca tttgcctctc 540
 cccattgacc ccaccctccc ctaccctggg ccagcggccc cacttctctt gtctctgg 598

<210> 184
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1477568T6

<220>
 <221> unsure
 <222> 255-327
 <223> a, t, c, g, or other

<400> 184
 taagaaatgc agattggcaa tcattgtacat ctctgattaa aacaacactc acataaccaa 60
 cacaatttgc taggccaag tcttcacggg caatccctgg ggtgggagtc tgggatgggg 120
 tggataatga aggatacctg ggggtgcaga agtgggggtg gaatccctgg ggcacagtc 180
 cacaggaggt gggggccagc gatggcttca ggggtgatat ttccaatata tatcagccct 240
 gggcactctc gccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnncca gatctattga gttagaagct gtattaacaa 360
 gatccccagt gatttttatg c 381

<210> 185
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2963871F6

<220>
 <221> unsure
 <222> 368, 400, 423, 472
 <223> a, t, c, g, or other

<400> 185
 gtcaatacaa atgctcaggc ccaactgggaa ttgaagggtg aattatatca aaccagcaaa 60
 tcacagcttc ctctactcac cgagctcttt ttggactcca aaaatggat ccctactatg 120
 caggtcttaa taagaagggg cttataaatg cgtggacagc tgcagaaaat gacagatggc 180
 cgtggattca gataaattg caaaggaaaa tgagagttac tgggtgtgatt acccaaggag 240
 ccaaggagat tggaagccca gagtatataa aatcctacaa aattgcctac agtaatgatg 300
 gaaagacttg ggcaatgtac aaagtgaag gcaccaatga agacatggtg tttcgtggaa 360

acattganaa caacactcca tatgctaact ctttcacacn ccccataaaa agctcagtat 420
gtnagactct atcccccaagt ttgtcggaga cattgcactt tgcgaatgga anttcttgg 479

<210> 186
<211> 88
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1740547H1

<400> 186
tggaagagaa ccgttttaaat ctggattttg ttttgtcaca cctggaaaat actttgcaaa 60
tatgttctaa attgaaaaca attttttt 88

<210> 187
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2292011H1

<400> 187
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cagctgaggc agctactgga gaagggtgcag aacatgtctc aatccataga ggtcttggac 120
aggcggaccc agagagactt gcagtacgtg gagaagatgg agaaccaaat gaaaggactg 180
gagtccaagt tcaaacaggt ggaggagagt cataagcaac acctggccag 230

<210> 188
<211> 251
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1349484H1

<220>
<221> unsure
<222> 167
<223> a, t, c, g, or other

<400> 188
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aaaccaggca tctggtcaaa ccagcagatc aaaaagcaca aagagctggg gcagaggcag 120
gaagcagggg ccctcctggc agctcctctg agtggggaga ggttggnag tgagtggagg 180
accctaatag cagggactag aagcctcagt tccccattt tacccttcca cacaatagcc 240
tctgtagggt a 251

<210> 189
<211> 200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1674253H1

<400> 189
cctggcttag gcaggtaggg gaattagggc catgctggaa gaagcttaac catgtgttca 60
aagaacgggt tcttgettg c ttggctcctg aactccccctt ggctgccccca ggctccttg 120
gcccatgggt gctgggggag gtggatgtca gatctggtag gttgcagcag agaaaataaa 180
tgtgccttga gagaccactc 200

<210> 190
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1932189H1

<220>
 <221> unsure
 <222> 59, 76, 249
 <223> a, t, c, g, or other

<400> 190
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 tggccgcact ctcagncacc atcagtttcc gcatctacaa gtctgtttta caagcagtgc 120
 agaaaaccga cgaaggccac cctttcaagg cctacttgga gcttgagatc accctttctc 180
 aggagcagat tcagaagtac acggatgcct gcagttctac gtgaacagca cattaaggaa 240
 tgaggaggnc ttccttgt 258

<210> 191
 <211> 561
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1403041T6

<220>
 <221> unsure
 <222> 549
 <223> a, t, c, g, or other

<400> 191
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 ttgttcattt cagggtctca atgtagctga agaactgtgc ccactgatca gtattacgta 120
 ttgcaaatgc aggaggtaaag gctaaaaatag gacttatgcc gttcagaaga ttgaattgaa 180
 accttaaaaa ctatcataat agtaggaatg catgttaaga tttgataact ttcttttagct 240
 agagttttca acccacagtt aggagcaaag ttgtaaagtg agtaggtgtg aagaaggac 300
 actcttttga gaaaagaaat tagctacttc taaaatgatt caattatttt ccctattttc 360
 attttccata atatttcctc ctgttttata cctctaacta ccctcctgat ttctctgagg 420
 aaaaaaaaga atataagagc aggatcaaaa aaaagcaaga gcttatcact ttagcctttt 480
 agaaatactg tttttagtca gataacctca aattttaaac ttccgagggt tttcatcacc 540
 cccttggtgg aaatatttgg g 561

<210> 192
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1486358T6

<220>
 <221> unsure
 <222> 3, 5, 10-11, 13, 162-164, 171, 173
 <223> a, t, c, g, or other

<400> 192
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 agctaaggtc ggcaggggct gaggggagtg aggcagggag gatgcatggg gcctgtggga 120
 accagagaga agctggggtc agaggttagga gctgacgctg tnnngggtgg ngngtgaaag 180
 gtgaggcaag gtcaaagggt aactgcagct cggaggggagg ggtccaatat aaaccaggac 240
 ttgcaggtgt agaagtaaaa tgggactcat agagggtgaa agagaagttg gagtcagagg 300

ggattcagag atcaaagaga agttgggggc agaggtagga gctgggggctc aggtggggggg 360
 tt 362

<210> 193
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1439065F6

<220>
 <221> unsure
 <222> 161, 205
 <223> a, t, c, g, or other

<400> 193
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 agggccttgg ggaagggtca gagatgccag cccctggga cctcccccat cctttttgcc 120
 tccaagtttc taagcaatac attttggggg ttccctcagc nccccacccc agatcttagc 180
 tggcaggtct ggggtcccct tttcntcccc tgggaagggc tggaaatagga tagaaagctg 240
 ggggttttca gaggcctatg tgtggggagg ggagtggatt ccttcagggc atggtacctt 300
 tctaggacct gggaatgggg tggagaggac atcctcttca cccagaatt gcgctgcttc 360
 agccccatct ccagcctgat cctctgaatc ttccctccct ccctttctga tatagtact 420
 ggggcaaaag gagccattgt gacc 444

<210> 194
 <211> 400
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 530629R6

<220>
 <221> unsure
 <222> 90, 187, 299, 302, 323, 338, 340, 343
 <223> a, t, c, g, or other

<400> 194
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 gtgctctgtc cttagagaag gcgcgggtgm cgggttccct tccctaggg cacattacta 120
 aggggggtcag gcaatgcatt ctcgttccag caccatctgg gactgggtac agtacctcca 180
 gccccanggc cctgacctgc gcacctagct tgacatctca cgcacctccc agagctggcg 240
 ccactgagta atccggacct caacacctct tttcctttga gccaaggca gagctgganc 300
 tngcgccacc cagacagcgt cangtgtggc tggggtangn ttngaggctc gccagttacg 360
 ccaagtcccc tctgagattc gatcagggga ctggatagat 400

<210> 195
 <211> 121
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1672676H1

<400> 195
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 caacccccac cccccataat ctgactcaca acttcacat cagttggggg cataccacta 120
 g 121

<210> 196
 <211> 233
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1989129H1

<220>

<221> unsure

<222> 66, 83, 232

<223> a, t, c, g, or other

<400> 196

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gcattngcaa atccacactg atnaacacac tcttcaacac gaccttcgag actgaggaag 120
ccagtcacca tgaggcatgc gtgcgcctgc ggccccagac ctatgacctc caggagagca 180
acgtgcagct caagctgacc attgtggatg ccgtgggctt tggggatcag ana 233

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<210> 197

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1486348T6

<220>

<221> unsure

<222> 270-285, 483, 504

<223> a, t, c, g, or other

<400> 197

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aattaatatg cactatactc tcacctccac aatcattcca tagcaaatgt gtgtcttctg 120
gatgatgtgg aagagagagc ccagcaagca ctatgggcct ggctttgcca aaatctaaaa 180
caggccaaag ggatattaaa tttcttattt ggtgtgggtt gggctgggcc agtaatttgt 240
tctcacttac agtgggtctgt cgtatgtttn nnnnnnnnnn nnnnnctgca cctcaccatg 300
ttattcccag gaatgtaatg gcctcagata tcccatcatt ggaaacactt catagtagag 360
gttaccattt tggtgtttat ttagcacctg aatttaggca agagaaacat ttctacctga 420
agactccatg cagtc aaatt tcctgcctt tatattggaa tttctacaga gacctatggg 480
ctncccaagt gaggaagcca gggcnactcag ccctcaccct ccagctggcc ttgggacagt 540
aacttgcttg attcctcttt ct 562

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<210> 198

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1397294H1

<400> 198

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cgaacagtct ctctctctca cagaagcctg gagctgggca tccaagaaga agcagcctca 60
tttgttttct ggtgtcatcg taggtggcca cctatggctt ttgggcttct cacctggggc 120
gggtgggttc tgcaccaccc tcccaccctc ctctctccgt gtggacgata gagccacatc 180
cagcaccacg gacagctccc gggcgaccaa aaagaagaat gta 223

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<210> 199

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2844322T6

<220>
 <221> unsure
 <222> 55, 419, 578
 <223> a, t, c, g, or other

<400> 199
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 cttccctct cctgacacca gcaaggggga ggccacatca ccggccctgc cccatcatgc 120
 atccaatgat tactagcact agaagccaac ggcaaaggac ccgcgcgcgt tgctcgtgtt 180
 taatccagggt taagctatac acgtttaaat acatgtcggg ggttacatgg tctcatgcag 240
 tccctgtgat ggaatgactc ttgctcagtg acctcctgca gcgaggctgc tccaaagggc 300
 aagggttaggt agggcagagc acttttaaaa tgtagtccgt tagcaaagta ggcaccttct 360
 cattatcctc cttcatggca aagagaatgt ttgtcagcat ctgcagggtct tccactgang 420
 gaggagaggc tttcttctcg taaggaatga ctgtgttcag atactgtttg tcagttcctg 480
 aggagccaaa ggtctggcgg atgcactctg cagaatgttg gagatgcttc catgtgaag 540
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<210> 200
 <211> 365
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1481440T6

<220>
 <221> unsure
 <222> 8, 29, 32, 35, 38, 67, 69, 79, 88, 99, 101, 112, 114, 126, 176, 230, 276, 308, 324
 <223> a, t, c, g, or other

<400> 200
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 cctaaangng gggggccna aaggggntt gggttgagng nggggccaaa gngnaaggac 120
 cccaangggc ccaaagggga aaagttaaag cccaaattaa aaattaaacc aaccnggaa 180
 ccaagaccca aggaagcttc ccccttcc caaggaacca aggattggan ggggtaaaaa 240
 aggaaggttt agaagaaggg aagccccgta aattgnaggg gccgttgggg ggtttcctgg 300
 ccagggangg gggcaagctt gggntaaaag taatggggga aggttcaatg gccccccaa 360
 gggac 365

<210> 201
 <211> 308
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 026459H1

<220>
 <221> unsure
 <222> 9, 22, 101, 111, 182, 186, 195, 214, 227, 246-247, 257, 284, 298, 305
 <223> a, t, c, g, or other

<400> 201
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 gactctaccc ctggggcatc gtggaagtgg aaaacccagg gcactgagac tttgtgaagc 180
 tnaggncaat tctgntacgt accacatgc aggnccctgaa ggatgtnaca cgggcgacac 240
 attatnngcc ccaccngca cagtgaatc cagagcatga ccncctggt tgtaagnaa 300
 cggantcc 308

<210> 202
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1406786T6

<220>
 <221> unsure
 <222> 6, 32, 151-152, 155, 208, 218, 258, 277, 333, 349
 <223> a, t, c, g, or other

<400> 202
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 aaaaagaggg agagagataa taaactatat tttgggtggg atgggtgatta aacacctctt 120
 ttgggtatgc cttttaaaaa tgcttataga nnaanaaaat tttaaaaaga tagctaattgc 180
 tagtatatac tgcaatgtta ggggaatnaa catgtttnc tactgcattg gggacttcta 240
 gatagggttaa tgaaaggnc tttattctgt tactggncat gaaaactttg tctaatttct 300
 tactctattg tacgtttaca gtcgcagcac tanaaatgga tgacatcana catttttaac 360
 aaaatgatgt acaaact 377

<210> 203
 <211> 276
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1485846H1

<400> 203
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 tttgtggggg ctgcagctac actggtttcc ctgctcacct tcatgattgc tgccacttac 180
 aactttgccg tccttaaact catgggccga ggcaccaagt tctgatcccc cgtagaaatc 240
 cccctttctc taatagcgag gctctaacca cacagc 276

<210> 204
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2153242H1

<400> 204
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 aagctcttac ctatagtaca agtacatgat gctactgaat attttccac ttgggtaaaa 120
 aaaaaactgt gagctggttg ttgcattaaa acacacatac aaacaaaatc aaaaacactg 180
 cggactttca ctcaagctgg tctttcttcc ccagtgtgaa gcaatcctgc ctactaaca 240
 caccaacaac aaaacactcc a 261

<210> 205
 <211> 244
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2157981H1

<220>
 <221> unsure
 <222> 228
 <223> a, t, c, g, or other

<400> 205
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agatattgtc tatcacccca ggggccatct gaaggtctct ttgcatttct ccatgcaaag 180
aggagaaagc ttttgctttc acactgtccc tccccaaata tgtgagtnat ggaattgtca 240
aagt                                         244

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<210> 206
 <211> 252
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3244361H1

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<400> 206
gttcctcacc ttaaagggtc ccctgaagca ggcgcatccaa gtcattgggtcc agcccagcga 60
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ggaggcctac atctaggggtg ggggccactc accgaccgga cactctcacc ccccgacctg 180
gctgagtgcg accaccactt gatgtctgag gataccttcc atctcaacct acctcgagtg 240
gcgagtcacg ac                                         252

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<210> 207
 <211> 577
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1986737T6

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<400> 207
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tgaggctctc aatgtctata atgtcaatgc aagaaaaaat acagagagaa gtagtaaaat 180
aacacaatag caattaattg gggaaaaaca aaatatcatg gccttcacaa gaagcaacaa 240
cacagctttg taacagggtt atacagggtt caaccgagag gcaaagatgc actaaactgc 300
ctacacatac ccagggtatg aacaagcaag gagggcacct caagttcagt ttccttcatg 360
catgacacat gctttttttc tctcatgga caattattga agtgtttcgt tacatgtctt 420
aggcagcctg aagaaggtag gaaagcctta gtagagggaa atcaaaccac atgagattaa 480
gtcaaaagaa cagataacta tcgtctgtct atctacttaa aggtgtgtgg catttaccac 540
agtgaggagc taacaggagc tcccacacta catgcag                                         577

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<210> 208
 <211> 615
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2506867T6

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<400> 208
aacaattaaa ccacatccaa ggtcttaact tacagacaga aaccaaagta gccattttaa 60
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accacaatgg ccagtggtac agctgtgcac tctgcttggt ctttaagtgc tgggtgtggc 180
tgagggggaag gcgtgtctgc agaacagaag aacagctgtg tttcacaagt actgaagcat 240
tttagactgc atgggggggt atatatatttc atgttgaagg gaagagggga aatcagcaaa 300
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ccttgctcac gctcgggtgaa ttctctgcag accttggcag cgtccttcag cagggtgtcc 420
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ccatccacgt tgtaaacag aataaaatgg aaattcacct tgtcatctac ccgacattgg 540
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tttgctctgt cttca                                         615

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<210> 209
 <211> 1141
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1345551CB1

<400> 209
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 taatagtttt caaggaaaag tggcattcat tactggggga ggtactggcc ttggtaaagg 240
 aatgacaact cttctgtcca gcctaggtgc tcagtgcgtg atagccagcc ggaagatgga 300
 tgttttgaaa gctaccgcag aacaaatttc ttctcaaaact ggaaataagg ttcatgcaat 360
 tcagtgtgat gtgagggatc ctgatatggt tcaaaacact gtgtcagaac tgatcaaagt 420
 tgcaggacat cctaattattg tgataaaciaa tgcagcaggg aattttattt ctccactga 480
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 tattactact atctatgctg agactgggtc aggttttcta gtaccaagtg cttctgcca 660
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<210> 210
 <211> 6518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1618422.con

<220>
 <221> unsure
 <222> 2496, 2503, 2505, 3049-3075, 3080
 <223> a, t, c, g, or other

<400> 210
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 ctgccctcac ctctcccccg aaaacccccct atttagccaa aggaaggagg tcagggggaa 180
 gctctccccct ccccttccaa aaaacaaaaa cagaaaaacc cttttccagg ccgggggaa 240
 caggagggag aggggcccgc gggctggcca tggagctgct gtgccacgag gtgggacccg 300
 gtccgagggg ccgttgccgg accgcaacct gctccgagac gaccgcgtcc tgcagaacct 360
 gctcaccatc gaggagcgct accttcgcga gtgctctac ttcaagtgcg tgcagaagga 420
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 ggtcccgaact ccgaagtccc atctgcaact cctgggtgct gtctgcatgt tcctggcctc 600
 caaactcaaa gagaccagcc cgctgaccgc ggagaagctg tgcatttaca ccgacaactc 660
 catcaagcct caggagctgc tggagtgga actggtgggt ctgggggaagt tgaagtggaa 720
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<210> 214

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1850033CB1

<400> 214

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<212> DNA

<213> Homo sapiens

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 <223> Incyte ID No: 3030106CB1

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 <222> 6
 <223> a, t, c, g, or other

<400> 215
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<210> 216

<211> 1480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 718807.con

<400> 216

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<210> 217

<211> 2814

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2880435.con

<400> 217

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tcctctatag aagtcacac atctcaagaa aaagaaataa ccataaagaa acccaatgga 360

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<210> 218

<211> 1694

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 187326.con

<400> 218

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<210> 219
<211> 1466
<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 3208425.con

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<210> 220
<211> 7185
<212> DNA
<213> Homo sapiens

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<223> a, t, c, g, or other

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<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 4014318.con

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<213> Homo sapiens

<220>

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<223> Incyte ID No: 1485879CB1

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<211> 1765

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<213> Homo sapiens

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<400> 224

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<211> 2012

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1719955.com

<400> 225

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<213> Homo sapiens

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<211> 1050

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<213> Homo sapiens

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<210> 237

<211> 1931

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2623268.con

<400> 237

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<211> 2585

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1665533.con

<400> 238

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 <213> Homo sapiens

<220>
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<210> 240
 <211> 962
 <212> DNA
 <213> Homo sapiens

<220>
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<400> 240

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<210> 241

<211> 846

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1539638CB1

<400> 241

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<211> 3575

<212> DNA

<213> Homo sapiens

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<211> 3152

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 155179CB1

<400> 271

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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2132487.con

<400> 272

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<211> 933

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> unsure

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<223> a, t, c, g, or other

<400> 273

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<211> 649

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1800311CB1

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<211> 1578

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<223> Incyte ID No: 610574CB1

<400> 275

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<211> 2793

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1805613.con

<220>

<221> unsure

<222> 2474

<223> a, t, c, g, or other

<400> 276

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<210> 302
 <211> 400
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2369312.con

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<210> 303
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 <212> DNA
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<220>
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 <223> Incyte ID No: 2514629CB1

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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 085246,con

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<210> 305

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 139825CB1

<400> 305

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<210> 306

<211> 1295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 138274CB1

<400> 306

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<210> 307

<211> 5195

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 4285165CB1

<400> 307

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<210> 308

<211> 4860

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 630729CB1

<400> 308

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<210> 309

<211> 1887

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 946822.con

<400> 309

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<210> 310

<211> 1967

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2517330.con

<400> 310

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<210> 311
 <211> 1452
 <212> DNA
 <213> Homo sapiens

<220>
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<210> 312

<211> 1758
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 138361CB1

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<210> 313
 <211> 1922
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 168865CB1

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<210> 314

<211> 2379

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 271684CB1

<400> 314

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<212> DNA
<213> Homo sapiens

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<210> 325

<211> 1571

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 185986CB1

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<210> 326

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 085596CB1

<400> 326

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<210> 327

<211> 1686

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1544305CB1

<400> 327

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<210> 328

<211> 1273

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 149832CB1

<400> 328

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<211> 6134

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1448718.con

<400> 329

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<210> 338
 <211> 1346
 <212> DNA
 <213> Homo sapiens

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 <223> Incyte ID No: 2614869CB1

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<210> 339
 <211> 1471
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
 <221> unsure
 <222> 1434, 1437-1438, 1441-1443, 1445, 1449
 <223> a, t, c, g, or other

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<210> 340

<211> 624

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 086390CB1

<400> 340

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<210> 341

<211> 2663

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2881975CB1

<400> 341

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<210> 342

<211> 2877

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g5596369

<400> 342

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<210> 355

<211> 2077

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1881237CB1

<400> 355

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<210> 356

<211> 2439

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3669695CB1

<220>

<221> unsure

<222> 6

<223> a, t, c, g, or other

<400> 356

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<210> 357
<211> 1630
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2776408CB1

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<400> 357
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<210> 358
<211> 2520
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1330674.con

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<210> 359

<211> 2707

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2377834.con

<400> 359

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<210> 360

<211> 1364

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1307376CB1

<400> 360

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<210> 369

<211> 1720

<212> DNA

<213> Homo sapiens

<220>
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 <223> Incyte ID No: 2068983.con

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 <211> 1620
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 3526170CB1

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 <222> 120
 <223> a, t, c, g, or other

<400> 370
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 <223> Incyte ID No: 2068983.con

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 <223> a, t, c, g, or other

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <221> unsure
 <222> 9, 17, 52, 55, 58, 67, 79, 90
 <223> a, t, c, g, or other

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 2792982.con

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<211> 1928

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<221> unsure

<222> 1866

<223> a, t, c, g, or other

<400> 389

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<223> Incyte ID No: 2838551.con

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<211> 7016

<212> DNA

<213> Homo sapiens

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<221> unsure

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